

DRAFT PHASE II SOILS INVESTIGATION
AT THE
EARL W. BRIDGES ARTPARK SITE
FOR THE
ARTPARK AMPHITHEATER FEASIBILITY STUDY
& MASTER PLAN

LOCATED IN
LEWISTON, NEW YORK

MARCH 2009

PREPARED FOR:

Wendel Duchscherer
140 John James Audubon Parkway
Suite 201
Amherst, New York

PREPARED BY:

WATTS
ARCHITECTURE &
ENGINEERING, P.C.



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architecture | engineering | environmental

March 3, 2009

Mr. Darryl Jones
Project Manager
Wendel Duchscherer
140 John James Audubon Parkway
Amherst, NY 14228

Re: Earl W. Bridges Artpark Site -
Artpark Amphitheater Feasibility Study & Master Plan
Lewiston, New York
DRAFT Phase II Soils Investigation

Dear Mr. Jones:

Watts Architecture and Engineering, P.C. (Watts) was retained by Wendel Duchscherer (WD) to conduct a soil boring program to assist WD with their evaluation and assessment of environmental concerns associated with the purposed project. According to records previously provided by New York State Office of Parks Recreation and Historic Preservation (NYSOPRHP), fill known to have originated with the Stauffer Chemical Company and from other locations has been historically placed at the Artpark Site. In order to document site conditions to confirm the future safety of the park users, workers involved with the proposed Amphitheater construction plans, and to determine if evidence of contamination is present, a recommendation for a limited Phase II Field Investigation was proposed. The field activities included a soil boring program to screen and collect soils for chemical laboratory analysis in select areas to examine for potential contamination associated with historical use and unauthorized dumping in the past.

Soil Boring Program – Artpark Amphitheater

Based on the location of the proposed project, WD in conjunction with NYSOPRHP supplied the locations of ten proposed soil borings B-1 through B-10. These locations are identified on the attached figure. Watts completed the soil boring program on January 5th- 8th 2009. Drilling of the soil borings and soil sample retrieval was conducted by SJB Services Inc., (SJB) under the direction of a Watts' field geologist. The drilling program was conducted using a CME 550X off road track rig. The drillers utilized 4.25 inch diameter hollow stem augers and 24 inch split spoon samplers for soil retrieval. Soil sample collection was continuous in two foot intervals from the surface to 50 ft for B-1, to 20 ft for B-2 through B-6, and to 10 ft for B-7 through B-10. Prior to the collection of each sample, the split spoon was decontaminated using an Alconox scrub followed by a clean water rinse.

After soil boring B-1 was completed to 50 feet below ground surface (bgs), the drilling scope was modified. Soil borings B-2 through B-6 were completed to 20 feet bgs and soil borings B-7 through B-10 were completed to 10 feet bgs. In addition, two temporary groundwater monitoring wells were installed in soil borings B-3 and B-6 to determine the depth to groundwater. During drilling, each 24 inch split spoon sample was screened for volatile organic vapors with a photoionization detector (PID) and observed for any evidence of contamination (odor, staining, etc.). No field indicators of soil contamination were observed or recorded in any of the soil borings.

Mr. Darryl Jones
Wendel Duchscherer
DRAFT Phase II Soils Investigation – Artpark Amphitheater
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In general, the soils examined for B-1 through B-6 consisted of reworked silty Clay and sand and gravel, and some identified fill material (i.e. wood, brick, and slag) to a depth of almost 7 to 10 feet bgs. The remainder of each of these soil borings consisted of native silty clay and weathered shale. Soils examined for B-7 through B-10 consisted of Sand and Gravel fill to varying depths (2 to 10 feet bgs) overlaying silty clay and weathered shale. Field soil boring logs with detailed soil lithologies are provided as an attachment to this report.

In order to collect enough soil for laboratory analysis, soil was collected across multiple depth intervals from each of the soil borings.

Soil sample collection depths from each boring was as follows:

- B - 2 6 feet bgs to 8 feet bgs
- B - 3 4 feet bgs to 10 feet bgs
- B - 5 2 feet bgs to 10 feet bgs
- B - 8 2 feet bgs to 8 feet bgs
- B - 9 2 feet bgs to 6 feet bgs

In addition, a surface soil sample was collected from a culvert area which collects and drains surface water runoff from a known area of fill located on the Artpark property. This sample was collected from the surface to approximately six inches bgs.

After collecting the samples, the soils were packed in pre-cleaned laboratory supplied containers, placed in a cooler on ice and prepared for hand delivery to the laboratory. Samples collected by Watts were analyzed by Test America in Amherst, New York. Test America is a New York State Department of Health (NYSDOH) approved laboratory and a participant in the National Voluntary Laboratory Approval Program (NVLAP). The samples were dropped off at Test America on January 8, 2009 (see attached chain of custody). The samples were analyzed for the following parameters: total metals using EPA method 6010B, mercury using EPA method 7471A, cyanide using EPA method 9012A, polychlorinated biphenyls (PCB's) using EPA method 8082, volatile organic compounds (VOC's) using EPA method 8260, semi-volatile organic compounds (SVOC's) using EPA method 8270C, and pesticides using EPA method 8081A. The narrative below was developed from the review of the laboratory test results.

Inorganic Lab Results

The laboratory results indicate that the following metals were detected at concentrations above the limits found in 6NYCCR Part 375 Environmental Remediation Program for unrestricted use soil cleanup objectives: arsenic in soil samples from soil borings B-2, B-3 and B-5; copper in soil borings B-2 and B-3; lead in soil borings B-2, B-3, and B-5; and nickel in soil boring B-3. While lead was detected at a concentration above the unrestricted use criteria it was below the residential use criteria in the soil samples from soil borings B-2, B-3 and B-5. While copper was detected at a concentration above the unrestricted use criteria it was below the residential use criteria in the soil samples from soil borings B-2 and B-3. While nickel was detected at a concentration above the unrestricted use criteria it was below the residential use criteria in the soil samples from soil boring B-2. However, arsenic was detected at a concentration above the restricted use soil cleanup objectives in comparison to both the residential and restricted residential criteria in soil borings B-2, B-3 and B-5.

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March 3, 2009

Pesticide/PCBs Lab Results

The laboratory results indicate that the following pesticides were detected at concentrations above the limits found in 6NYCCR Part 375 Environmental Remediation Program for unrestricted use soil cleanup objectives:

- 4,4'-DDE in soil boring B-3 and the culvert sample but below both restricted and unrestricted residential criteria;
- 4,4'-DDT in soil boring B-2 and the culvert sample but below both restricted and unrestricted residential criteria;
- aldrin in soil boring B-2 above both the restricted and unrestricted residential criteria though the result is flagged and qualified;
- beta-BHC in soil borings B-2, B-3, and B-5 and above the unrestricted residential criteria in B-2 and B-3 and above the restricted residential criteria for B-2;
- endrin in soil borings B-2 and B-3 but below both restricted and unrestricted residential criteria; and,
- heptachlor epoxide in soil boring B-2 but below both restricted and unrestricted residential criteria.

The laboratory results indicate that total PCBs were not detected in soil borings B-2, B-3, B-5, B-8 and B-9. Total PCBs were detected in the culvert sample at a concentration above the unrestricted use criteria but below the limits found in 6NYCCR Part 375 Environmental Remediation Program for unrestricted and restricted residential use soil cleanup objectives.

Semi-Volatile and Volatile Organic Lab Results

The laboratory results indicated that no volatile or semi-volatile compounds were detected at concentrations above the limits found in 6NYCCR Part 375 Environmental Remediation Program for unrestricted use soil cleanup objectives. The detected concentrations were all below the NYSDEC soil cleanup objectives and many were qualified by the laboratory as estimated values ("J" values due to their concentrations being at or below the labs method detection limit) or associated with the blank at very low concentrations.

Analytical Summary

A copy of the laboratory analytical report is attached to this report. The following table identifies only the elevated compounds detected in the soil samples when compared to the 6NYCCR Part 375 Environmental Remediation Program for unrestricted use soil cleanup objectives (SCOs) and the protection of public health for unrestricted and restricted residential use cleanup objectives.

The NYSDEC Soil Cleanup Objectives include three types of individual soil reuse categories including Protection of Groundwater, Protection of Ecological Resources, and Protection of Public Health. The Unrestricted Soil Cleanup Objective is based on the selection of the most stringent and restrictive value of these three different (groundwater, ecological resources and public health) categories of soil reuse.

The NYSDEC has also further broken down the Protection of Public Health Criteria into four levels of protection: Unrestricted Residential, Restricted Residential, Commercial and Industrial based upon the proposed reuse of the site. For this project the results should be compared to the Unrestricted Residential and the Restricted Residential criteria as these are most appropriate for the intended use of the site. The majority of the concentrations that were identified are below the unrestricted residential use soil cleanup objectives except for aldrin (B-2), beta-BHC (B-2 and B-3), and arsenic (B-2, B-3, and B-5).

Mr. Darryl Jones
 Wendel Duchscherer
 DRAFT Phase II Soils Investigation – Artpark Amphitheater
 March 3, 2009

TABLE 1 – Soil Sample Analysis (Detected Compounds Only)

Sample Location	B-2	B-3	B-5	Culvert	B-8	B-9	NYSDEC Part 375-6 Soil Cleanup Objectives	
Sample Date	1/6/09	1/7/09	1/7/09	1/7/09	1/8/09	1/8/09		
Analyte	Concentration						Unrestricted Use	Unrestricted/ Restricted Residential Use
TCL Volatiles (µg/kg)								
Acetone	ND	15J	14J	ND	ND	ND	50	100,000/100,000
Carbon disulfide	ND	2.1J	4.5J	ND	ND	ND	NSp	NSp/NSp
Chloroform	3.3J	3.6J	7.5	ND	ND	ND	370	10,000/49,000
Methylcyclohexane	ND	ND	1.3J	ND	ND	ND	NSp	NSp/NSp
Methylene Chloride	12	6.0J	7.0	3.7J	5.9	6.2	50	51,000/100,000
Tetrachloroethene	7.6	6.0J	8.6	ND	ND	ND	1300	5,500/19,000
Toluene	ND	ND	1.5J	ND	ND	ND	700	100,00/100,000
TCL Semi-Volatiles (µg/kg)								
2-Methylnaphthalene	80J	ND	110J	ND	ND	ND	NSp	NSp/NSp
Anthracene	97J	96J	ND	ND	ND	ND	100,000	100,000/100,000
Benzo(a)anthracene	260J	270J	73J	85J	10J	ND	1000	1,000/1,000
Benzo(a)pyrene	190J	190J	57J	76J	ND	ND	1000	1,000/1,000
Benzo(b)fluoranthene	250J	210J	51J	99J	ND	ND	1000	1,000/1,000
Benzo(g,h,i)perylene	150J	120J	ND	48J	ND	ND	100,000	100,000/100,000
Benzo(k)fluoranthene	600J	520J	440J	220J	ND	ND	800	1,000/3900
Bis (2-ethylhexyl) phthalate	2400	1300	1400	ND	590	120J	NSp	NSp/NSp
Chrysene	290J	240J	55J	81J	ND	ND	1000	1,000/3900
Dibenzo(a,h,)anthracene	59J	48J	ND	ND	ND	ND	330	330/330
Dibenzofuran	61J	ND	ND	ND	ND	ND	7000	14,000/59,000
Diethyl phthalate	59J	63J	ND	ND	ND	ND	NSp	NSp/NSp
Di-n-butyl phthalate	ND	420J	ND	ND	ND	ND	NSp	NSp/NSp
Fluoranthene	370J	560J	79J	130J	ND	ND	100,000	100,000/100,000
Fluorene	59J	ND	ND	ND	ND	ND	30,000	100,000/100,000
Hexachlorobenzene	210J	ND	ND	ND	ND	ND	NSp	NSp/NSp
Hexachloroethane	310J	ND	ND	ND	ND	ND	NSp	NSp/NSp
Ideno(1,2,3-cd)pyrene	130J	110J	ND	41J	ND	ND	500	500/500
Naphthalene	59J	ND	96J	ND	ND	ND	12,000	100,000/100,000
Phenanthrene	250J	410J	110J	71J	8.2J	ND	100,000	100,000/100,000
Pyrene	340J	430J	61J	100J	ND	ND	100,000	100,000/100,000
TCL Pesticides (µg/kg)								
4,4'-DDE	ND	122	ND	22.1	0.925J	2.10	3.3	1,800/8,900
4,4'-DDT	327J	ND	ND	7.51	ND	1.45J	3.3	1,700/7,900
Aldrin	327J	ND	ND	1.48J	ND	ND	5	19/97
beta-BHC	823	168	46.8	ND	ND	ND	36	72/360
gamma-BHC	ND	ND	ND	ND	0.771J	0.750J	40	100,000/100,000

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DRAFT Phase II Soils Investigation – Artpark Amphitheater
March 3, 2009

Sample Location	B-2	B-3	B-5	Culvert	B-8	B-9	NYSDEC Part 375-6 Soil Cleanup Objectives	
Sample Date	1/6/09	1/7/09	1/7/09	1/7/09	1/8/09	1/8/09	Unrestricted Use	Unrestricted/ Restricted Residential Use
Analyte	Concentration							
Dieldrin	ND	ND	ND	ND	ND	0.559J	5	39/200
Endosulfan I	288J	ND	ND	ND	ND	1.24J	2400	4,800/24,000
Endosulfan II	184J	67.0J	5.93J	0.786J	ND	ND	2400	4,800/24,000
Endrin	593	82.6J	11.9J	1.99J	ND	ND	14	2,200/11,000
Endrin aldehyde	246J	ND	23.2	7.66	ND	ND	NSp	NSp/NSp
Endrin ketone	190J	ND	ND	ND	ND	ND	NSp	NSp/NSp
Hepatochlor epoxide	134J	ND	6.92J	3.50	ND	ND	42	420/2100
PCBs - Total (µg/kg)	ND	ND	ND	260	ND	ND	100	1,000/1,000
TAL Metals (mg/kg)								
Aluminum	4800	5690	5080	9420	5580	9420	NSp	NSp/NSp
Antimony	49.6	114	11.3J	10.5J	ND	ND	NSp	NSp/NSp
Arsenic	29.2	27.5	16.5	7.14	7.13	4.51	13	16/16
Barium	261	176	52.9	50.9	14.9	56.7	350	350/400
Beryllium	2.72	0.466	1.11	0.562	0.459	0.539	7.2	14/72
Cadmium	ND	0.513	0.0850J	0.134J	0.0022J	0.0134J	2.5	2.5/4.3
Calcium	10100	10500	23100	38700	116000*	67100*	NSp	NSp/NSp
Chromium	21.3	28.2	8.78	16.6	7.70	12.7	30**	36**/180**
Cobalt	23.4	6.04	2.93	9.46	6.40	9.85	NSp	NSp/NSp
Copper	55.2	51.5	24.3	36.7	15.5	13.6	50	270/270
Iron	50700	20,800	11500	16400	11100	14900	NSp	NSp/NSp
Lead	156	299	82.9	55.7	19.7	9.22	63	400/400
Magnesium	2400	6500	10500	17500	31400	30600	NSp	NSp/NSp
Manganese	224	156	206	574	515	546	1600	2,000/2,000
Mercury	1.04	1.57	0.0766	0.193	ND	ND	0.18	0.81/0.81
Nickel	66.3	18.5	15.2	20.9	12.3	21.6	30	140/310
Potassium	1110	1150	1040	1910	2420	2220	NSp	NSp/NSp
Selenium	ND	0.586J	0.216J	0.302J	ND	ND	3.9	36/180
Silver	0.705J	0.583J	0.0937J	0.140J	0.120J	0.0175J	2	36/180
Sodium	467	89.1J	536	104J	143J	123J	NSp	NSp/NSp
Thallium	3.35J	1.88J	0.514J	0.726J	ND	0.642J	NSp	NSp/NSp
Vanadium	15.7	20.7	13.0	16.5	8.46	14.1	NSp	NSp/NSp
Zinc	100	101	45.5	107	69.8	50.9	109	2,200/10,000

NOTES:

ND = Not Detected

NSp = Not specified

J = Estimated value - analyte was identified below the sample quantitation limit

* D08=Dilution required due to high concentration of target analyte(s).

Shaded cell indicates that the concentration exceeds one reference standard.

Shaded with bold text indicates that the concentration exceeds the unrestricted residential use criteria.

** Trivalent form of chromium.

Mr. Darryl Jones
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March 3, 2009

Conclusions and Recommendations

The results of the laboratory analysis indicate that evidence of fill and slight contamination is certainly present in the soils based on the low concentrations of a variety of pesticides, organics, inorganics/metals, and PCBs that were detected in many of the samples. The number and concentration of these compounds was more frequent and at a higher concentration in the samples collected from the proposed amphitheater area (borings B-2, B-3, and B-5).

A review of the lab results should focus on the comparison of the concentrations of the compounds that were detected to the Unrestricted Residential Use Criteria as these are the levels below which no special handling, disposal or other practices are required. Soils that exceed the Unrestricted Residential Use Criteria should not be utilized in a setting where direct human contact can occur. It is probable that the NYSDEC would still allow their reuse on the site, however, they may request that a clean soil barrier or cap be placed between the soils that exceed the Unrestricted Residential Use Criteria and the users in any area which is not covered by components of development (e.g., buildings, pavement, etc.). This will prevent direct contact with these materials. In areas where development is to occur no cap would be necessary. All effort should be focused to engineer a design which does not create excess fill that cannot be incorporated into the proposed amphitheater setting as any excess soils will have to be characterized for proper handling and disposal. Their handling could require disposal at a licensed and permitted landfill if they need to be transported off-site since re-use options could be very limited depending upon the outcome of any additional testing.

If you should have any questions or require any additional information, please feel free to contact me at (716) 206-5120.

Sincerely,

WATTS ARCHITECTURE & ENGINEERING, P.C.



Andrew Klimek, CHMM
Attachments

Daily Field Notes and Boring Logs



DAILY FIELD NOTES

PROJECT: Artpark Amphitheater Feasibility Study
 ADDRESS: Lewiston, New York

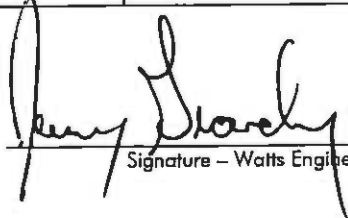
DATE: 1/6/09
 WATTS PROJECT: Y8213

Day	S	M	T	W	TH	F	S
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Weather
 Temperature
 Wind
 Humidity
 Surface Conditions

Snow	Rain	Overcast	Part Cloudy	Clear
To 32	32 - 50	50 - 70	80 - 85	85 - up
Calm	Moder	High		
Dry	Moder	Humid		
Dry	Moist	Wet	Frozen	

Time	Daily Field Notes
08:00	JG (Watts) on-site.
08:15	SJB (Drillers) on-site. Workers unloading CME 550 ATV drill rig. Driller – Dale Mathies, Driller Assistant – Jim Friden
08:20	Continue geotechnical sampling of B-1.
10:30	B-1 completed to 50' below ground surface. Workers begin pulling augers from B-1.
11:00	Discuss drilling program with SJB personnel, it is determined that borings will be advanced to approximately 20' below ground surface (bgs).
11:10	Set up on B-4.
11:15	Begin geotechnical sampling of B-4.
12:15	Drillers break for lunch.
12:45	Drillers continue B-4 completed to 20' below ground surface.
13:30	B-4 completed to 20' below ground surface.
13:35	Workers remove augers from B-4.
13:50	Set up on B-2.
13:55	Begin geotechnical sampling of B-2.
14:25	Collect sample for chemical analysis at B-2 from 6'- 8' bgs.
15:05	B-2 completed to 20' below ground surface.
15:10	Workers remove augers from B-2.
15:25	Set-up on B-5.
15:30	Inspect boring location B-7 to see if drill rig will be able to get to the location. It appears that the drill will not be able to get to this location due to the guardrail at the edge of the parking lot.
15:45	JG off-site.


 Signature – Watts Engineers



DAILY FIELD NOTES

PROJECT: Artpark Amphitheater Feasibility Study
 ADDRESS: Lewiston, New York

DATE: 1/7/09
 WATTS PROJECT: Y8213

Day	S	M	T	W	TH	F	S
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Weather
 Temperature
 Wind
 Humidity
 Surface Conditions

Snow	Rain	Overcast	Part Cloudy	Clear
To 32	32 - 50	50 - 70	80 - 85	85 - up
Calm	Moder	High		
Dry	Moder	Humid		
Dry	Moist	Wet	Frozen	

Time	Daily Field Notes
07:00	JG (Watts) on-site.
07:30	SJB (Drillers) on-site. Workers unloading CME 550 ATV drill rig. Driller – Matt Mathies, Driller Assistant – Jim Friden
08:10	Begin geotechnical sampling of B-5.
09:00	Collect sample for chemical analysis at B-5 from 2' - 10' bgs.
09:25	B-5 completed to 20' below ground surface.
09:30	Workers remove augers from B-5.
09:45	Set-up on B-3.
09:55	Begin geotechnical sampling of B-3.
10:20	Collect sample for chemical analysis at B-3 from 4' - 10' bgs.
10:40	B-3 completed to 20' below ground surface.
10:45	Collect soil sample from culvert.
11:05	Driller begins installation of 2" PVC monitoring well. Well set at 20' bgs, screen to 10' bgs, sand to 8' bgs, bentonite seal to 6' bgs, backfill to 6" bgs, will set curb box later.
12:10	Move to B-6.
12:25	Set-up on B-6.
12:30	Begin geotechnical sampling of B-6.
13:50	B-6 completed to 20' below ground surface.
14:00	Driller begins installation of 2" PVC monitoring well. Well set at 20' bgs, screen to 10' bgs, sand to 8' bgs, bentonite seal to 6' bgs, backfill to 6" bgs, will set curb box later.
14:20	Work completed for the day.
14:50	Driller goes around to the various boring locations and complete backfill of holes.
15:30	JG off-site.

 Signature – Watts Engineers



DAILY FIELD NOTES

PROJECT: Artpark Amphitheater Feasibility Study
 ADDRESS: Lewiston, New York

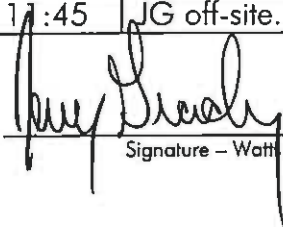
DATE: 1/8/09
 WATTS PROJECT: Y8213

Day	S	M	T	W	TH	F	S
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Weather
 Temperature
 Wind
 Humidity
 Surface Conditions

Snow	Rain	Overcast	Part Cloudy	Clear
To 32	32 - 50	50 - 70	80 - 85	85 - up
Calm	Moder	High		
Dry	Moder	Humid		
Dry	Moist	Wet	Frozen	

Time	Daily Field Notes
08:00	JG (Watts) on-site.
08:20	SJB (Drillers) on-site. Workers unloading CME 550 ATV drill rig. Driller - Dale Mathies, Driller Assistant - Matt Mathies
08:35	Set-up on B-7. Location moved approximately 29' east of stake due to guardrail.
08:45	Begin geotechnical sampling of B-7.
09:15	B-7 completed to 10' below ground surface.
09:20	Workers remove augers from B-7.
09:25	Set-up on B-8.
09:30	Begin geotechnical sampling of B-8.
09:50	B-8 completed to 10' below ground surface, collect sample for chemical analysis from 2'-8' bgs.
09:55	Workers remove augers from B-8.
10:00	Set-up on B-9.
10:05	Begin geotechnical sampling of B-9.
10:35	B-9 completed to 10' below ground surface, collect sample for chemical analysis from 2'-6' bgs.
10:40	Workers remove augers from B-9.
10:50	Set-up on B-10
10:55	Begin geotechnical sampling of B-10.
11:25	B-10 completed to 10' below ground surface.
11:30	Workers remove augers from B-10.
11:40	Load drill rig onto trailer.
11:45	JG off-site.


 Signature - Watts Engineers



DAILY FIELD NOTES

PROJECT: Artpark Amphitheater Feasibility Study
ADDRESS: Lewiston, New York

DATE: 1/5/09
WATTS PROJECT: Y8213

Day	S	M	T	W	TH	F	S
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Weather
Temperature
Wind
Humidity
Surface Conditions

Snow	Rain	Overcast	Part Cloudy	Clear
To 32	32 - 50	50 - 70	80 - 85	85 - up
Calm	Moder	High		
Dry	Moder	Humid		
Dry	Moist	Wet	Frozen	

Time	Daily Field Notes
08:00	JG (Watts) on-site, check boring locations and culvert sampling location.
08:25	Drillers inform JG that they will not arrive at the site until later in the day.
12:00	Meet with Josh Brodie Artpark park manager to discuss sample locations.
12:15	SJB (Drillers) on-site. Workers unloading CME 550 ATV drill rig. Driller - Matt Mathies, Driller Assistant - Jim Friden
12:50	Set-up on boring B-1.
12:55	Begin geotechnical sampling of B-1.
16:00	Work completed for the day, augers advanced to 40' below ground surface (BGS).

[Signature]
Signature - Watts Engineers



BORING LOG

Drill Rig: CME 550 ATV

Date Drilled: 1/5-6/09

Logged By: JG

Boring Dia: 4 1/4 HSA

Boring Number: B-1

Sample	Blow Counts	Depth	PID (ppm)	Completion	Description
	3				0-0.6 Brown coarse sandy silt + GRAVEL (0.6 RECOVERY)
	2	1			
	2				
	2	2	0	Fill	
	1				0-0.6 DARK brown SAND + GRAVEL (0.6 RECOVERY)
	1	3			
	1				
	1	4	0	Fill	
	1				0-0.3 SAME AS ABOVE 0.3-0.6 misc. Fill, brick, slag (0.6 RECOVERY)
	1	5			
	1				
	1	6	0	Fill	
	WT/H	7		?	NO RECOVERY
	↓	8	0		
	2				0-0.2 misc. Fill, wood, brick, trace silt (0.2 RECOVERY)
	2	9			
	6				
	10	10	0	Fill	
	16				0-0.5 Red/brown Clay, some GRAVEL 0.5-0.7 Grey Clay (0.7 RECOVERY)
	50/2	11	0	CL	
		12			
	50/3				0-0.3 Red/brown Clay TRACE GRAVEL (0.3 RECOVERY)
		13	0	CL	
		14			
	16				0-0.7 SAME AS ABOVE (0.7 RECOVERY)
	50/3	15	0	CL	
		16			
	50/2				0-0.2 becomes Grey Clay (0.2 RECOVERY)
		17	0	CL	
		18			
	50/3				0-0.3 becomes Red/brown clay (0.3 RECOVERY)
		19	0	CL	
		20			

Completion Notes:

start 1/5/09 1255
 stop 1/6/09 1030
 Augers to 50' bgs

Site: Artpark Amphitheater
 Geotechnical Investigation/Environmental Monitoring

Project No: Y8213, BG 01 Page 1 of 2



BORING LOG

Drill Rig: CME 550 ATV

Date Drilled: 1/5-6/09

Logged By: JG

Boring Dia: 4 1/4 HSA

Boring Number: B-1 (cont)

Sample	Blow Counts	Depth	PID (ppm)	Completion	Description
	50/3	21	0	CL	0-0.3 Red/brown clay (0.3 RECOVERY)
		22			
	50/2	23	0	CL	0-0.2 SAME AS ABOVE (0.2 RECOVERY)
		24			
	50/2	25	0	CL	0-0.2 SAME AS ABOVE (0.2 RECOVERY)
		26			
	50/3	27	0	CL	0-0.3 SAME AS ABOVE (0.3 RECOVERY)
		28			
	50/3	29	0	CL	0-0.3 SAME AS ABOVE (0.3 RECOVERY)
		30			
	50/3	32	0	CL	0-0.3 SAME AS ABOVE (0.3 RECOVERY)
		34			
	50/2	36	0	CL	0-0.2 Red/brown clay (0.2 RECOVERY)
		38			
	50/3	40	0	CL	0-0.3 SAME AS ABOVE (0.3 RECOVERY)
		45			
	50/3	50	0	CL	0-0.3 SAME AS ABOVE (0.3 RECOVERY)
	50/3				0-0.3 weathered shale (0.3 RECOVERY)

Completion Notes:

Boring completed to 50' bgs

Site: Artpark Amphitheater
Geotechnical Investigation/Environmental Monitoring

Project No: Y8213, BG 01

Page

2 of 2



BORING LOG

Drill Rig: CME 550 ATV

Date Drilled: 1/6/09

Logged By: JG

Boring Dia: 4 1/4 HSA

Boring Number: B-2

Sample	Blow Counts	Depth	PID (ppm)	Completion	Description
	6				0-0.6 - Brown silty silt, trace organics
	14	1			0-0.6 - 1.0 - Brown silty clay (rawhead), misc fill
	23		0	Fill	1.0-1.5 - Dark brown m-c sand + gravel (1.5 Recovery)
	7	2			
	4				0-1.0 Dark brown m-c sand + gravel, trace rock fragments
	4	3	0	Fill	(1.0 Recovery)
	3				
	16	4			0-0.4 wood + misc fill
	8				
	5	5	0	Fill	(0.4 Recovery)
	1				
	8	6			0-0.4 Gray m-silty clay, trace wood (wrt, soft)
	2				
	2	7	0	Fill	(0.4 Recovery)
	1				
	1	8			
	4			CC	0-0.4 Gray silty clay 0.4-0.8 Red/brown weathered shale 0.8-1.0 becomes gray 1.0-1.5 becomes red/brown
	10	9	0		
	24				
	50/4	10			
	6			NA	0-0.6 Red/brown weathered shale
	6	11	0		
	50/4				
		12			(0.6 Recovery)
		13	0	NA	Auger to 15' bgs
		14			
	50/4	15	0	NA	0-0.4 Red/brown weathered shale (0.4 Recovery) Auger to 20' bgs
		16			
				NA	0-0.3 same as above (0.3 Recovery)
		20	0		
	50/3				soil sample collect from 6'-8' at 14:25

Completion Notes: Start: 1355
 Stop: 1505
 Boring Completed to 20' bgs

Site: Artpark Amphitheater
 Geotechnical Investigation/Environmental Monitoring
 Project No: Y8213, BG 01 Page 1 of 1



BORING LOG

Drill Rig: CME 550 ATV

Date Drilled: 1/7/09

Logged By: JG

Boring Dia: 4 1/4 HSA

Boring Number: B-3

Sample	Blow Counts	Depth	PID (ppm)	Completion	Description
	13				0-0.6 #2 Stone and Gravel
	7	1			
	5		0	Fill	(0.6' Recovery)
	2	2			
	3				0-0.6 SAME AS ABOVE
	3	3			0.6-1.0 Brown Clayey C-m sand & Gravel
	2		0	Fill	(1.0' Recovery)
B-3	2	4			0-1.0 SAME AS ABOVE (WET)
	1	5			
	WT/H		0	Fill	(1.0' Recovery)
	↓	6			
	WT/H				0-0.3 SAME AS ABOVE (WET)
	↓	7	0	Fill	(0.3' Recovery)
	↓	8			0-0.3 Dark brown m-f Sand, TRAILER WOOD, GRAVEL (SAW RESIDUE)
	1	9		Fill	
	3		0	CL	0.3-0.6 Red/brown silty clay (0.6' Recovery)
	2	10			0.6-0.8 - Red/brown weathered shale
	5		0	NA	0.8-1.0 becomes grey
	7	11			Auger to 15'
	50/4				(0.1' Recovery)
		12			
			0	NA	
	50/4	15			0-0.4 - Red/brown weathered shale (0.4' Recovery)
					Auger to 20'
		20	0	NA	
	50/2				0-0.2 SAME AS ABOVE. (0.2' Recovery)
					Soil sample collected from 4'-10' at 10:20

Completion Notes: Start = 09:55
 Stop = 10:40
 Boring completed to 20' bgs
 " PVC Well set @ 20' BGS, screen to 10', sand to 8' bgs

Site: Artpark Amphitheater
 Geotechnical Investigation/Environmental Monitoring

Project No: Y8213, BG 01 Page 1 of 1



BORING LOG

Drill Rig: CME 550 ATV

Date Drilled: 1/6/09

Logged By: JG

Boring Dia: 4 1/4 HSA

Boring Number: B-4

Sample	Blow Counts	Depth	PID (ppm)	Completion	Description
	2				0-0.6 BROWN clayey silt, TRACE organics
	2	1			0.6-1.2 BROWN silty clay (REWORKED)
	3		0	Fill	(1.2 RECOVERY)
	4	2			
	3				0-0.4 - SAME AS ABOVE, ROCK FRAGMENT IN SHOE
	3	3			
	5		0	Fill	(0.4 RECOVERY)
	4	4			
	4				0-0.4 ROCK FRAGMENTS
	5	5			
	22		0	Fill	(0.4 RECOVERY)
	8	6			
	9				0-0.5 GRAY silty clay
	50/4	7	0	CL	0.5-0.9 BECOMES RED/BROWN
		8			(0.9 RECOVERY)
	50/4	9			0-0.4 RED/BROWN WEATHERED SHALE
		10	0	NA	(0.4 RECOVERY)
	50/4	11			0-0.4 RED/BROWN WEATHERED SHALE
		12	0	NA	(0.4 RECOVERY)
		13			AUGER to 15' bgs
		15	0	NA	
	50/3	16			0-0.3 RED/BROWN WEATHERED SHALE (0.3 RECOVERY)
			0	NA	AUGER to 20' bgs
		20			
	50/2		0	NA	0-0.2 RED/BROWN WEATHERED SHALE (0.2 RECOVERY)

Completion Notes:

Start 1115
Stop 1330

Boring Completed to 20' bgs

Site: Artpark Amphitheater

Geotechnical Investigation/Environmental Monitoring

Project No: Y8213, BG 01

Page 1 of 1



BORING LOG

Drill Rig: CME 550 ATV

Date Drilled: 1/7/09

Logged By: JG

Boring Dia: 4 1/4 HSA

Boring Number: B-5

Sample	Blow Counts	Depth	PID (ppm)	Completion	Description
	7				0-0.2 Black Papers
	6	1			0.2-0.5 Brown silty clay, some gravel
	4		0	Fill	
	3	2			0.6-1.0 Black coarse sand + gravel, cinders (1.0 Recovery)
	5				
	4	3			0-1.0 Black coarse sand + gravel, some brick
	3		0	Fill	
	4	4			(1.0 Recovery)
	4				
	2	5			0-1.0 Black coarse sand + gravel (wat)
	2		0	Fill	
	2	6			(1.0 Recovery)
	3				
	1	7			0-0.6 Black coarse-med. sand + gravel, trace brick
	2		0	Fill	
	1	8			(1.0 Recovery)
	3				
	1	9			0-0.6 SAME AS ABOVE (wat)
	3		0	Fill	
	16	10			0.6-0.8 wood + stone fragments (0.8 Recovery)
	7			Fill	0-0.3 SAME AS ABOVE
	32	11		CL	0.3-0.9 Gray silty clay
	50/14	12		NA	0.9-1.8 becomes red/brown weathered shale (1.8 Recovery)
		13			Auger to 15' bgs
			0		
		14			
		15			0-0.4 Red/brown weathered shale
	30/4		0	NA	
		16			Auger to 20' BGS (0.4 Recovery)
			0	NA	
	30/3	20			0-0.3 Red/brown weathered shale (0.3 Recovery)
					Sample collected from 2'-10' bgs @ 09:00

Completion Notes:

start 0910
stop 0925

Site: Artpark Amphitheater
Geotechnical Investigation/Environmental Monitoring

Boring completed to 20' bgs

Project No: Y8213, BG 01 Page 1 of 1



BORING LOG

Drill Rig: CME 550 ATV

Date Drilled: 1/9/09

Logged By: JG

Boring Dia: 4 1/4 HSA

Boring Number: B-6

Sample	Blow Counts	Depth	PID (ppm)	Completion	Description
	1				0-0.6 Brown sandy silt, trace roots
	8	1		Fill	0.6-0.8 - concrete
	3		0		
	10	2			
	4				0-0.2 - concrete
	5	3	0	Fill	0.2-0.6 - grey silty clay
	4				
	3	4			
	6				0-1.6 Red/brown silty clay, trace slag (REWORKED)
	4	5	0	Fill	
	5				
	4	6			
	11				0-0.9 SAME AS ABOVE
	8	7	0	Fill	0.9-1.0 stone fragments
	7				
	8	8			
	5				1.0-1.3 Brown silty clay, trace gravel (1.3 RECOVERY)
	8	9	0	CL	0-0.8 Brown sandy silt, some gravel
	10				
	8	10			
	9				0-1.4 Red/brown silty clay
	11	11	0	NA	1.4-2.0 becomes grey silty clay (2.0 RECOVERY)
	10				
	14	12			
		13	0	NA	Auger to 15' bgs
		15			
	25				0-0.8 Red/brown weathered shale
	42	16	0	NA	
	50/4				
		20			
			0	NA	
	10				0-0.3 SAME AS ABOVE (0.3 RECOVERY)
	50/3	21			Well set at 20' bgs: screen to 10' bgs, sand to 8' bgs grout seal to 6' bgs, backfill to surface and install curb box for monitoring well.

Completion Notes:

stand 1230
stop 1350

Site: Artpark Amphitheater
Geotechnical Investigation/Environmental Monitoring

Boring Completed to 20' Bgs

Project No: Y8213, BG 01 Page 1 of 1



BORING LOG

Drill Rig: CME 550 ATV

Date Drilled: 1/8/09

Logged By: JG

Boring Dia: 4 1/4 HSA

Boring Number: B-8

Sample	Blow Counts	Depth	PID (ppm)	Completion	Description
	2		0	Fill	0-0.3 Brown sandy silt, track roots 0.3-0.6 Gray silty Clay + Gravel (Reworked) (0.6 Recovery)
	4	1			
	5	2			
	5				
	11		0	Fill	0-0.8 Gray coarse sand + gravel, some clay + stone fragment (0.8 Recovery)
	11	3			
	7	4			
	8				
	6		0	Fill	0-1.0 SAME AS ABOVE (1.0 Recovery)
	6	5			
	4	6			
	5				
	3		0	Fill	0-0.6 SAME AS ABOVE (0.6 Recovery)
	3	7			
	3	8			
	5				
	4		0	Fill	0-0.6 SAME AS ABOVE (0.6 Recovery)
	6	9			
	3	10			
	5				
					* Sample collected from 2'-8' bgs @ 950

Completion Notes: Start 930
Stop 950

Site: Artpark Amphitheater
Geotechnical Investigation/Environmental Monitoring

Boring Completed to 10' Bgs

Project No: YB213, BG 01 Page



BORING LOG

Drill Rig: CME 550 ATV

Date Drilled: 1/8/09

Logged By: JG

Boring Dia: 4 1/4 HSA

Boring Number: B-9

Sample	Blow Counts	Depth	PID (ppm)	Completion	Description
	4				0-0.6 Brown silty coarse to med. sand
	9	1			0.6-1.0 Grey coarse sand + gravel
	10		0	Fill	1.0-1.8 Red/brown silty clay, trace gravel (reworked) (1.8 Recovery)
	11	2			
	7				0-1.0 Red/brown silty clay, trace gravel
	27	3			
	27		0	CL	(1.0 Recovery)
	30	4			
	9				0-0.6 same as above
	9	5			0.6-0.8 Red/brown silty clay
	9		0	CL	0.8-1.0 becomes grey (1.4 Recovery)
	9	6			1.0-1.4 becomes red/brown
	5				0-1.0 Red/brown silty clay, little gravel
	4	7			
	4		0	CL	(1.0 Recovery)
	4	8			
	4				0-0.2 same as above
	6	9			0.2-0.3 stone fragments
	50/3	10	0	CL	(0.3 Recovery)
					* Sample collected from 2'-6' bgs @ 1035

Completion Notes:

Start 1000
Stop 1035

Boring Complete @ 9.3' bgs

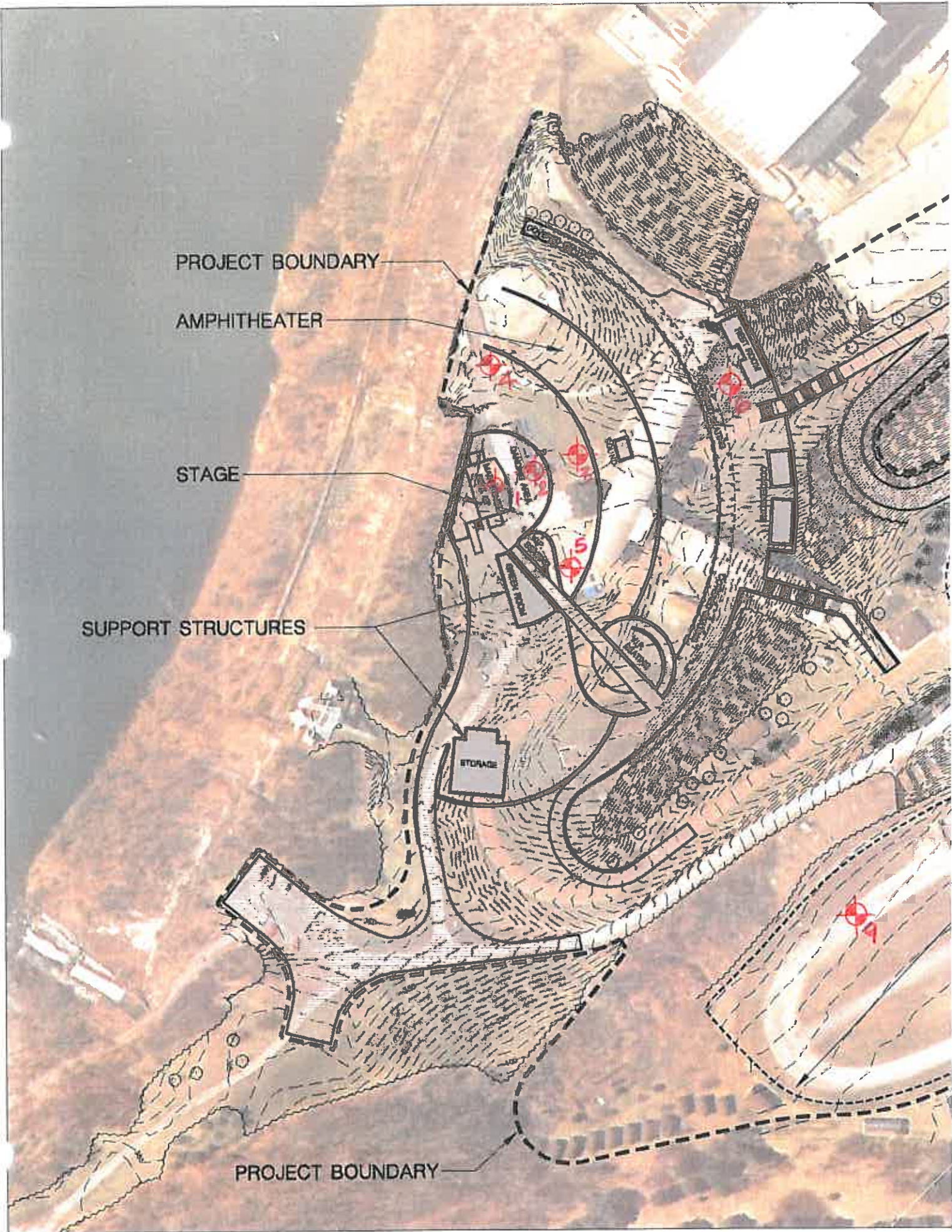
Site: Artpark Amphitheater

Geotechnical Investigation/Environmental Monitoring

Project No: Y8213, BG 01

Page

Soil Boring locations



PROJECT BOUNDARY

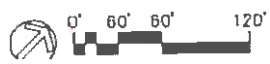
AMPHITHEATER

STAGE

SUPPORT STRUCTURES

STORAGE

PROJECT BOUNDARY



Photographs



Photo 1. Photo of the culvert sampling location. Photograph facing southwest.



Photo 2. Photo of typical fill material.



Photo 3. Photo of typical red-brown weathered shale.



Photo 4. Photo of CME 550 ATV drill rig.



Photo 5. Photo of driller installing monitoring well at B-6.



Photo 6. Photo of B-3 location, photograph facing north.

Soil Sampling Laboratory Analytical Results

Analytical Report

Work Order: RSA0235

Work Order Description: Watts Engineers Artpark Phase II

For:

Micheal Gerber, PG

Watts Engineers

3826 Main Street

Buffalo, NY 14226



Paul Morrow

Project Manager

Paul.Morrow@testamericainc.com

Thursday, February 19, 2009

The test results in this report meet all NELAP requirements for analytes for which accreditation is required or available. Any exception to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this test report should be directed to the TestAmerica Project manager who has signed this report.

Watts Engineers
3826 Main Street
Buffalo, NY 14226

Work Order: RSA0235
Project: Watts Engineers Artpark Phase II
Project Number: 48000480

Received: 01/08/09
Reported: 02/19/09 16:11

TestAmerica Buffalo Current Certifications

As of 1/27/2009

STATE	Program	Cert # / Lab ID
Arkansas	CWA, RCRA, SOIL	88-0686
California*	NELAP CWA, RCRA	01169CA
Connecticut	SDWA, CWA, RCRA, SOIL	PH-0568
Florida*	NELAP CWA, RCRA	E87672
Georgia*	SDWA, NELAP CWA, RCRA	956
Illinois*	NELAP SDWA, CWA, RCRA	200003
Iowa	SW/CS	374
Kansas*	NELAP SDWA, CWA, RCRA	E-10187
Kentucky	SDWA	90029
Kentucky UST	UST	30
Louisiana*	NELAP CWA, RCRA	2031
Maine	SDWA, CWA	NY0044
Maryland	SDWA	294
Massachusetts	SDWA, CWA	M-NY044
Michigan	SDWA	9937
Minnesota	SDWA, CWA, RCRA	036-999-337
New Hampshire*	NELAP SDWA, CWA	233701
New Jersey*	NELAP, SDWA, CWA, RCRA,	NY455
New York*	NELAP, AIR, SDWA, CWA, RCRA, CLP	10026
Oklahoma	CWA, RCRA	9421
Pennsylvania*	NELAP CWA, RCRA	68-00281
Tennessee	SDWA	02970
Texas*	NELAP CWA, RCRA	T10470441208-TX
USDA	FOREIGN SOIL PERMIT	S-41579
USDOE	Department of Energy	DOECAP-STB
Virginia	SDWA	278
Washington*	NELAP CWA, RCRA	C1677
Wisconsin	CWA, RCRA	998310390
West Virginia	CWA, RCRA	252

*As required under the indicated accreditation, the test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report.

Watts Engineers
3826 Main Street
Buffalo, NY 14226

Work Order: RSA0235

Project: Watts Engineers Artpark Phase II
Project Number: 48000480

Received: 01/08/09
Reported: 02/19/09 16:11

Case Narrative

A pertinent document is appended to this report, 1 page, is included and is an integral part of this report. Reproduction of this analytical report is permitted only in its entirety. This report shall not be reproduced except in full without the written approval of the laboratory.

TestAmerica Laboratories, Inc. certifies that the analytical results contained herein apply only to the samples tested as received by our Laboratory.

Watts Engineers
3826 Main Street
Buffalo, NY 14226

Work Order: RSA0235
Project: Watts Engineers Artpark Phase II
Project Number: 48000480

Received: 01/08/09
Reported: 02/19/09 16:11

DATA QUALIFIERS AND DEFINITIONS

- A-01** The MS and/or MSD recovery exhibited a result outside the quality control limits. The sample result is more than four times greater than the spike added. However, the BS was acceptable.
- D02** Dilution required due to sample matrix effects
- D08** Dilution required due to high concentration of target analyte(s)
- J** Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). Concentrations within this range are estimated.
- L2** Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was below acceptance limits.
- M1** The MS and/or MSD were outside the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- M8** The MS and/or MSD were below the acceptance limits. See Blank Spike (LCS).
- R** The RPD exceeded the method control limit due to sample matrix effects. The individual analyte QA/QC recoveries, however, were within acceptance limits.
- Z3** The sample required a dilution due to the nature of the sample matrix. Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.
- Z5** Due to sample matrix effects, the surrogate recovery was outside acceptance limits. Secondary surrogate recovery was within the acceptance limits.
- Z6** Surrogate recovery was below acceptance limits.

ADDITIONAL COMMENTS

Results are reported on a wet weight basis unless otherwise noted.

Watts Engineers
3826 Main Street
Buffalo, NY 14226

Work Order: RSA0235
Project: Watts Engineers Artpark Phase II
Project Number: 48000480

Received: 01/08/09
Reported: 02/19/09 16:11

Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: RSA0235-01 (B-2 - Solid)						Sampled: 01/06/09 14:25		Recvd: 01/08/09 12:20		
General Chemistry Parameters										
Percent Solids	69.1		0.0100	NA	%	1.00	01/14/09 00:00	JU	9A13003	Dry Weight
Organochlorine Pesticides by EPA Method 8081A										
4,4'-DDT	327	J	475	108	ug/kg dry	200	01/15/09 13:09	tch	9A11011	8081A
Aldrin	327	J	475	299	ug/kg dry	200	01/15/09 13:09	tch	9A11011	8081A
beta-BHC	823		475	343	ug/kg dry	200	01/15/09 13:09	tch	9A11011	8081A
Endosulfan I	288	J	475	183	ug/kg dry	200	01/15/09 13:09	tch	9A11011	8081A
Endosulfan II	184	J	475	85.4	ug/kg dry	200	01/15/09 13:09	tch	9A11011	8081A
Endrin	593		475	154	ug/kg dry	200	01/15/09 13:09	tch	9A11011	8081A
Endrin aldehyde	246	J	475	194	ug/kg dry	200	01/15/09 13:09	tch	9A11011	8081A
Endrin ketone	190	J	475	117	ug/kg dry	200	01/15/09 13:09	tch	9A11011	8081A
Heptachlor epoxide	134	J	475	122	ug/kg dry	200	01/15/09 13:09	tch	9A11011	8081A
Semivolatile Organics by GC/MS										
2-Methylnaphthalene	80	D02, J	1200	14	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
Anthracene	97	D02, J	1200	31	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
Benzo[a]anthracene	260	D02, J	1200	21	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
Benzo[a]pyrene	190	D02, J	1200	29	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
Benzo[b]fluoranthene	250	D02, J	1200	23	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
Benzo[g,h,i]perylene	150	D02, J	1200	14	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
Benzo[k]fluoranthene	600	D02, J	1200	13	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
Bis(2-ethylhexyl) phthalate	2400	D02	1200	380	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
Chrysene	290	D02, J	1200	12	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
Dibenz[a,h]anthracene	59	D02, J	1200	14	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
Dibenzofuran	61	D02, J	1200	12	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
Diethyl phthalate	59	D02, J	1200	36	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
Fluoranthene	370	D02, J	1200	17	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
Fluorene	59	D02, J	1200	28	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
Hexachlorobenzene	210	D02, J	1200	59	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
Hexachloroethane	310	D02, J	1200	92	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
Indeno[1,2,3-cd]pyrene	130	D02, J	1200	33	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
Naphthalene	59	D02, J	1200	20	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
Phenanthrene	250	D02, J	1200	25	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
Pyrene	340	D02, J	1200	7.7	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
Total Metals by SW 846 Series Methods										
Aluminum	4800		15.8	0.0372	mg/kg dry	1.00	01/15/09 03:37	AH	9A14015	6010B
Antimony	49.6		23.6	0.00864	mg/kg dry	1.00	01/15/09 03:37	AH	9A14015	6010B
Arsenic	29.2		3.15	0.00583	mg/kg dry	1.00	01/15/09 03:37	AH	9A14015	6010B
Barium	261		0.788	0.000441	mg/kg dry	1.00	01/15/09 03:37	AH	9A14015	6010B
Beryllium	2.72		0.315	0.000520	mg/kg dry	1.00	01/15/09 03:37	AH	9A14015	6010B
Calcium	10100		78.8	0.158	mg/kg dry	1.00	01/15/09 03:37	AH	9A14015	6010B
Chromium	21.3		0.788	0.00139	mg/kg dry	1.00	01/15/09 03:37	AH	9A14015	6010B
Cobalt	23.4		0.788	0.00167	mg/kg dry	1.00	01/15/09 03:37	AH	9A14015	6010B
Copper	55.2		1.58	0.00199	mg/kg dry	1.00	01/15/09 03:37	AH	9A14015	6010B
Iron	50700		15.8	0.0304	mg/kg dry	1.00	01/15/09 03:37	AH	9A14015	6010B
Lead	156		1.58	0.00457	mg/kg dry	1.00	01/15/09 03:37	AH	9A14015	6010B

Watts Engineers
3826 Main Street
Buffalo, NY 14226

Work Order: RSA0235
Project: Watts Engineers Artpark Phase II
Project Number: 48000480

Received: 01/08/09
Reported: 02/19/09 16:11

Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: RSA0235-01 (B-2 - Solid) - cont.						Sampled: 01/06/09 14:25		Recvd: 01/08/09 12:20		
Total Metals by SW 846 Series Methods - cont.										
Magnesium	2400		31.5	0.0667	mg/kg dry	1.00	01/15/09 03:37	AH	9A14015	6010B
Manganese	224		0.315	0.000378	mg/kg dry	1.00	01/15/09 03:37	AH	9A14015	6010B
Nickel	66.3		0.788	0.00162	mg/kg dry	1.00	01/15/09 03:37	AH	9A14015	6010B
Potassium	1110		47.3	0.0788	mg/kg dry	1.00	01/15/09 03:37	AH	9A14015	6010B
Silver	0.705	J	0.788	0.00200	mg/kg dry	1.00	01/15/09 03:37	AH	9A14015	6010B
Sodium	467		221	0.534	mg/kg dry	1.00	01/15/09 03:37	AH	9A14015	6010B
Thallium	3.35	J	9.46	0.00927	mg/kg dry	1.00	01/15/09 03:37	AH	9A14015	6010B
Vanadium	15.7		0.788	0.00154	mg/kg dry	1.00	01/15/09 03:37	AH	9A14015	6010B
Zinc	100		3.15	0.00568	mg/kg dry	1.00	01/15/09 03:37	AH	9A14015	6010B
Mercury	1.04		0.0275	0.0111	mg/kg dry	1.00	01/15/09 15:50	MM	9A15039	7471A
Volatile Organic Compounds by EPA 8260B										
Chloroform	3.3	J	7.0	0.43	ug/kg dry	1.00	01/13/09 03:01	CDC	9A12047	8260B
Methylene Chloride	12		7.0	0.49	ug/kg dry	1.00	01/13/09 03:01	CDC	9A12047	8260B
Tetrachloroethene	7.6		7.0	0.93	ug/kg dry	1.00	01/13/09 03:01	CDC	9A12047	8260B
Sample ID: RSA0235-02 (B-3 - Solid)						Sampled: 01/07/09 10:20		Recvd: 01/08/09 12:20		
General Chemistry Parameters										
Percent Solids	78.1		0.0100	NA	%	1.00	01/14/09 00:00	JU	9A13003	Dry Weight
Organochlorine Pesticides by EPA Method 8081A										
4,4'-DDE	122		105	30.3	ug/kg dry	50.0	01/14/09 18:26	tch	9A11011	8081A
beta-BHC	168		105	76.0	ug/kg dry	50.0	01/14/09 18:26	tch	9A11011	8081A
Endosulfan II	67.0	J	105	18.9	ug/kg dry	50.0	01/14/09 18:26	tch	9A11011	8081A
Endrin	82.6	J	105	34.0	ug/kg dry	50.0	01/14/09 18:26	tch	9A11011	8081A
Semivolatile Organics by GC/MS										
Anthracene	96	D02, J	1100	27	ug/kg dry	5.00	01/19/09 16:13	JLG	9A13076	8270C
Benzo[a]anthracene	270	D02, J	1100	18	ug/kg dry	5.00	01/19/09 16:13	JLG	9A13076	8270C
Benzo[a]pyrene	190	D02, J	1100	26	ug/kg dry	5.00	01/19/09 16:13	JLG	9A13076	8270C
Benzo[b]fluoranthene	210	D02, J	1100	21	ug/kg dry	5.00	01/19/09 16:13	JLG	9A13076	8270C
Benzo[g,h,i]perylene	120	D02, J	1100	13	ug/kg dry	5.00	01/19/09 16:13	JLG	9A13076	8270C
Benzo[k]fluoranthene	520	D02, J	1100	12	ug/kg dry	5.00	01/19/09 16:13	JLG	9A13076	8270C
Bis(2-ethylhexyl) phthalate	1300	D02	1100	340	ug/kg dry	5.00	01/19/09 16:13	JLG	9A13076	8270C
Chrysene	240	D02, J	1100	11	ug/kg dry	5.00	01/19/09 16:13	JLG	9A13076	8270C
Dibenz[a,h]anthracene	48	D02, J	1100	12	ug/kg dry	5.00	01/19/09 16:13	JLG	9A13076	8270C
Diethyl phthalate	63	D02, J	1100	32	ug/kg dry	5.00	01/19/09 16:13	JLG	9A13076	8270C
Di-n-butyl phthalate	420	D02, J	1100	370	ug/kg dry	5.00	01/19/09 16:13	JLG	9A13076	8270C
Fluoranthene	560	D02, J	1100	15	ug/kg dry	5.00	01/19/09 16:13	JLG	9A13076	8270C
Indeno[1,2,3-cd]pyrene	110	D02, J	1100	29	ug/kg dry	5.00	01/19/09 16:13	JLG	9A13076	8270C
Phenanthrene	410	D02, J	1100	22	ug/kg dry	5.00	01/19/09 16:13	JLG	9A13076	8270C
Pyrene	430	D02, J	1100	6.9	ug/kg dry	5.00	01/19/09 16:13	JLG	9A13076	8270C
Total Metals by SW 846 Series Methods										
Aluminum	5690		13.4	0.0316	mg/kg dry	1.00	01/15/09 03:42	AH	9A14015	6010B
Antimony	114		20.1	0.00735	mg/kg dry	1.00	01/15/09 03:42	AH	9A14015	6010B
Arsenic	27.5		2.68	0.00496	mg/kg dry	1.00	01/15/09 03:42	AH	9A14015	6010B
Barium	176		0.670	0.000375	mg/kg dry	1.00	01/15/09 03:42	AH	9A14015	6010B
Beryllium	0.466		0.268	0.000442	mg/kg dry	1.00	01/15/09 03:42	AH	9A14015	6010B
Cadmium	0.513		0.268	0.000442	mg/kg dry	1.00	01/15/09 03:42	AH	9A14015	6010B

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Watts Engineers
3826 Main Street
Buffalo, NY 14226

Work Order: RSA0235
Project: Watts Engineers Artpark Phase II
Project Number: 48000480

Received: 01/08/09
Reported: 02/19/09 16:11

Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: RSA0235-02 (B-3 - Solid) - cont.						Sampled: 01/07/09 10:20		Recvd: 01/08/09 12:20		
<u>Total Metals by SW 846 Series Methods - cont.</u>										
Calcium	10500		67.0	0.134	mg/kg dry	1.00	01/15/09 03:42	AH	9A14015	6010B
Chromium	28.2		0.670	0.00118	mg/kg dry	1.00	01/15/09 03:42	AH	9A14015	6010B
Cobalt	6.04		0.670	0.00142	mg/kg dry	1.00	01/15/09 03:42	AH	9A14015	6010B
Copper	51.5		1.34	0.00169	mg/kg dry	1.00	01/15/09 03:42	AH	9A14015	6010B
Iron	20800		13.4	0.0259	mg/kg dry	1.00	01/15/09 03:42	AH	9A14015	6010B
Lead	299		1.34	0.00389	mg/kg dry	1.00	01/15/09 03:42	AH	9A14015	6010B
Magnesium	6500		26.8	0.0567	mg/kg dry	1.00	01/15/09 03:42	AH	9A14015	6010B
Manganese	156		0.268	0.000322	mg/kg dry	1.00	01/15/09 03:42	AH	9A14015	6010B
Nickel	18.5		0.670	0.00138	mg/kg dry	1.00	01/15/09 03:42	AH	9A14015	6010B
Potassium	1150		40.2	0.0670	mg/kg dry	1.00	01/15/09 03:42	AH	9A14015	6010B
Selenium	0.586	J	5.36	0.00818	mg/kg dry	1.00	01/15/09 03:42	AH	9A14015	6010B
Silver	0.583	J	0.670	0.00170	mg/kg dry	1.00	01/15/09 03:42	AH	9A14015	6010B
Sodium	89.1	J	188	0.454	mg/kg dry	1.00	01/15/09 03:42	AH	9A14015	6010B
Thallium	1.88	J	8.04	0.00788	mg/kg dry	1.00	01/15/09 03:42	AH	9A14015	6010B
Vanadium	20.7		0.670	0.00131	mg/kg dry	1.00	01/15/09 03:42	AH	9A14015	6010B
Zinc	101		2.68	0.00483	mg/kg dry	1.00	01/15/09 03:42	AH	9A14015	6010B
Mercury	1.57		0.123	0.0497	mg/kg dry	5.00	01/15/09 17:01	MM	9A15039	7471A
<u>Volatile Organic Compounds by EPA 8260B</u>										
Acetone	15	J	31	2.4	ug/kg dry	1.00	01/13/09 03:26	CDC	9A12047	8260B
Carbon disulfide	2.1	J	6.2	0.53	ug/kg dry	1.00	01/13/09 03:26	CDC	9A12047	8260B
Chloroform	3.6	J	6.2	0.38	ug/kg dry	1.00	01/13/09 03:26	CDC	9A12047	8260B
Methylene Chloride	6.0	J	6.2	0.43	ug/kg dry	1.00	01/13/09 03:26	CDC	9A12047	8260B
Tetrachloroethene	6.0	J	6.2	0.83	ug/kg dry	1.00	01/13/09 03:26	CDC	9A12047	8260B
Sample ID: RSA0235-03 (B-5 - Solid)						Sampled: 01/07/09 09:00		Recvd: 01/08/09 12:20		
<u>General Chemistry Parameters</u>										
Percent Solids	80.5		0.0100	NA	%	1.00	01/14/09 00:00	JU	9A13003	Dry Weight
<u>Organochlorine Pesticides by EPA Method 8081A</u>										
beta-BHC	46.8		20.4	14.7	ug/kg dry	10.0	01/15/09 15:32	tch	9A11011	8081A
Endosulfan II	5.93	J	20.4	3.66	ug/kg dry	10.0	01/15/09 15:32	tch	9A11011	8081A
Endrin	11.9	J	20.4	6.59	ug/kg dry	10.0	01/15/09 15:32	tch	9A11011	8081A
Endrin aldehyde	23.2		20.4	8.30	ug/kg dry	10.0	01/15/09 15:32	tch	9A11011	8081A
Heptachlor epoxide	6.92	J	20.4	5.25	ug/kg dry	10.0	01/15/09 15:32	tch	9A11011	8081A
<u>Semivolatile Organics by GC/MS</u>										
2-Methylnaphthalene	110	J, D02	1000	12	ug/kg dry	5.00	01/19/09 16:36	JLG	9A13076	8270C
Benzo[a]anthracene	73	J, D02	1000	18	ug/kg dry	5.00	01/19/09 16:36	JLG	9A13076	8270C
Benzo[a]pyrene	57	J, D02	1000	25	ug/kg dry	5.00	01/19/09 16:36	JLG	9A13076	8270C
Benzo[b]fluoranthene	51	J, D02	1000	20	ug/kg dry	5.00	01/19/09 16:36	JLG	9A13076	8270C
Benzo[k]fluoranthene	440	J, D02	1000	11	ug/kg dry	5.00	01/19/09 16:36	JLG	9A13076	8270C
Bis(2-ethylhexyl) phthalate	1400	D02	1000	330	ug/kg dry	5.00	01/19/09 16:36	JLG	9A13076	8270C
Chrysene	55	J, D02	1000	10	ug/kg dry	5.00	01/19/09 16:36	JLG	9A13076	8270C
Fluoranthene	79	D02, J	1000	15	ug/kg dry	5.00	01/19/09 16:36	JLG	9A13076	8270C
Naphthalene	96	D02, J	1000	17	ug/kg dry	5.00	01/19/09 16:36	JLG	9A13076	8270C
Phenanthrene	110	J, D02	1000	22	ug/kg dry	5.00	01/19/09 16:36	JLG	9A13076	8270C
Pyrene	61	D02, J	1000	6.7	ug/kg dry	5.00	01/19/09 16:36	JLG	9A13076	8270C
<u>Total Metals by SW 846 Series Methods</u>										

Watts Engineers
3826 Main Street
Buffalo, NY 14226

Work Order: RSA0235
Project: Watts Engineers Artpark Phase II
Project Number: 48000480

Received: 01/08/09
Reported: 02/19/09 16:11

Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: RSA0235-03 (B-5 - Solid) - cont.						Sampled: 01/07/09 09:00		Recvd: 01/08/09 12:20		
Total Metals by SW 846 Series Methods - cont.										
Aluminum	5080		12.5	0.0295	mg/kg dry	1.00	01/15/09 03:47	AH	9A14015	6010B
Antimony	11.3	J	18.7	0.00685	mg/kg dry	1.00	01/15/09 03:47	AH	9A14015	6010B
Arsenic	16.5		2.50	0.00462	mg/kg dry	1.00	01/15/09 03:47	AH	9A14015	6010B
Barium	52.9		0.625	0.000350	mg/kg dry	1.00	01/15/09 03:47	AH	9A14015	6010B
Beryllium	1.11		0.250	0.000412	mg/kg dry	1.00	01/15/09 03:47	AH	9A14015	6010B
Cadmium	0.0850	J	0.250	0.000412	mg/kg dry	1.00	01/15/09 03:47	AH	9A14015	6010B
Calcium	23100		62.5	0.125	mg/kg dry	1.00	01/15/09 03:47	AH	9A14015	6010B
Chromium	8.78		0.625	0.00110	mg/kg dry	1.00	01/15/09 03:47	AH	9A14015	6010B
Cobalt	2.93		0.625	0.00132	mg/kg dry	1.00	01/15/09 03:47	AH	9A14015	6010B
Copper	24.3		1.25	0.00157	mg/kg dry	1.00	01/15/09 03:47	AH	9A14015	6010B
Iron	11500		12.5	0.0241	mg/kg dry	1.00	01/15/09 03:47	AH	9A14015	6010B
Lead	82.9		1.25	0.00362	mg/kg dry	1.00	01/15/09 03:47	AH	9A14015	6010B
Magnesium	10500		25.0	0.0529	mg/kg dry	1.00	01/15/09 03:47	AH	9A14015	6010B
Manganese	206		0.250	0.000300	mg/kg dry	1.00	01/15/09 03:47	AH	9A14015	6010B
Nickel	15.2		0.625	0.00129	mg/kg dry	1.00	01/15/09 03:47	AH	9A14015	6010B
Potassium	1040		37.5	0.0625	mg/kg dry	1.00	01/15/09 03:47	AH	9A14015	6010B
Selenium	0.216	J	5.00	0.00762	mg/kg dry	1.00	01/15/09 03:47	AH	9A14015	6010B
Silver	0.0937	J	0.625	0.00159	mg/kg dry	1.00	01/15/09 03:47	AH	9A14015	6010B
Sodium	536		175	0.424	mg/kg dry	1.00	01/15/09 03:47	AH	9A14015	6010B
Thallium	0.514	J	7.50	0.00735	mg/kg dry	1.00	01/15/09 03:47	AH	9A14015	6010B
Vanadium	13.0		0.625	0.00122	mg/kg dry	1.00	01/15/09 03:47	AH	9A14015	6010B
Zinc	45.5		2.50	0.00450	mg/kg dry	1.00	01/15/09 03:47	AH	9A14015	6010B
Mercury	0.0766		0.0231	0.00935	mg/kg dry	1.00	01/15/09 15:57	MM	9A15039	7471A
Volatile Organic Compounds by EPA 8260B										
Acetone	14	J	31	2.5	ug/kg dry	1.00	01/13/09 03:52	CDC	9A12047	8260B
Carbon disulfide	4.5	J	6.3	0.54	ug/kg dry	1.00	01/13/09 03:52	CDC	9A12047	8260B
Chloroform	7.5		6.3	0.39	ug/kg dry	1.00	01/13/09 03:52	CDC	9A12047	8260B
Methylcyclohexane	1.3	J	6.3	0.41	ug/kg dry	1.00	01/13/09 03:52	CDC	9A12047	8260B
Methylene Chloride	7.0		6.3	0.44	ug/kg dry	1.00	01/13/09 03:52	CDC	9A12047	8260B
Tetrachloroethene	8.6		6.3	0.84	ug/kg dry	1.00	01/13/09 03:52	CDC	9A12047	8260B
Toluene	1.5	J	6.3	0.64	ug/kg dry	1.00	01/13/09 03:52	CDC	9A12047	8260B
Sample ID: RSA0235-04 (CULVERT - Solid)						Sampled: 01/07/09 10:45		Recvd: 01/08/09 12:20		
General Chemistry Parameters										
Percent Solids	73.3		0.0100	NA	%	1.00	01/14/09 00:00	JU	9A13003	Dry Weight
Organochlorine Pesticides by EPA Method 8081A										
4,4'-DDE	22.1		2.24	0.645	ug/kg dry	1.00	01/14/09 19:38	tch	9A11011	8081A
4,4'-DDT	7.51		2.24	0.510	ug/kg dry	1.00	01/14/09 19:38	tch	9A11011	8081A
Aldrin	1.48	J	2.24	1.41	ug/kg dry	1.00	01/14/09 19:38	tch	9A11011	8081A
Endosulfan II	0.786	J	2.24	0.402	ug/kg dry	1.00	01/14/09 19:38	tch	9A11011	8081A
Endrin	1.99	J	2.24	0.724	ug/kg dry	1.00	01/14/09 19:38	tch	9A11011	8081A
Endrin aldehyde	7.66		2.24	0.912	ug/kg dry	1.00	01/14/09 19:38	tch	9A11011	8081A
Heptachlor epoxide	3.50		2.24	0.577	ug/kg dry	1.00	01/14/09 19:38	tch	9A11011	8081A
Polychlorinated Biphenyls by EPA Method 8082										
rochlor 1254 [2C]	260		22.4	4.72	ug/kg dry	1.00	01/14/09 14:03	tch	9A13026	8082

Semivolatile Organics by GC/MS

Watts Engineers
3826 Main Street
Buffalo, NY 14226

Work Order: RSA0235
Project: Watts Engineers Artpark Phase II
Project Number: 48000480

Received: 01/08/09
Reported: 02/19/09 16:11

Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: RSA0235-04 (CULVERT - Solid) - cont.						Sampled: 01/07/09 10:45		Recvd: 01/08/09 12:20		
Semivolatile Organics by GC/MS - cont.										
Benzo[a]anthracene	85	J, D02	450	7.8	ug/kg dry	2.00	01/19/09 16:59	JLG	9A13076	8270C
Benzo[a]pyrene	76	J, D02	450	11	ug/kg dry	2.00	01/19/09 16:59	JLG	9A13076	8270C
Benzo[b]fluoranthene	99	J, D02	450	8.7	ug/kg dry	2.00	01/19/09 16:59	JLG	9A13076	8270C
Benzo[g,h,i]perylene	48	J, D02	450	5.4	ug/kg dry	2.00	01/19/09 16:59	JLG	9A13076	8270C
Benzo[k]fluoranthene	220	J, D02	450	5.0	ug/kg dry	2.00	01/19/09 16:59	JLG	9A13076	8270C
Chrysene	81	J, D02	450	4.5	ug/kg dry	2.00	01/19/09 16:59	JLG	9A13076	8270C
Fluoranthene	130	J, D02	450	6.5	ug/kg dry	2.00	01/19/09 16:59	JLG	9A13076	8270C
Indeno[1,2,3-cd]pyrene	41	J, D02	450	12	ug/kg dry	2.00	01/19/09 16:59	JLG	9A13076	8270C
Phenanthrene	71	J, D02	450	9.5	ug/kg dry	2.00	01/19/09 16:59	JLG	9A13076	8270C
Pyrene	100	J, D02	450	2.9	ug/kg dry	2.00	01/19/09 16:59	JLG	9A13076	8270C

Total Metals by SW 846 Series Methods

Aluminum	9420		14.1	0.0333	mg/kg dry	1.00	01/15/09 03:52	AH	9A14015	6010B
Antimony	10.5	J	21.1	0.00772	mg/kg dry	1.00	01/15/09 03:52	AH	9A14015	6010B
Arsenic	7.14		2.82	0.00521	mg/kg dry	1.00	01/15/09 03:52	AH	9A14015	6010B
Barium	50.9		0.705	0.000395	mg/kg dry	1.00	01/15/09 03:52	AH	9A14015	6010B
Beryllium	0.562		0.282	0.000465	mg/kg dry	1.00	01/15/09 03:52	AH	9A14015	6010B
Cadmium	0.134	J	0.282	0.000465	mg/kg dry	1.00	01/15/09 03:52	AH	9A14015	6010B
Calcium	38700		70.5	0.141	mg/kg dry	1.00	01/15/09 03:52	AH	9A14015	6010B
Chromium	16.6		0.705	0.00124	mg/kg dry	1.00	01/15/09 03:52	AH	9A14015	6010B
Cobalt	9.46		0.705	0.00149	mg/kg dry	1.00	01/15/09 03:52	AH	9A14015	6010B
Copper	36.7		1.41	0.00178	mg/kg dry	1.00	01/15/09 03:52	AH	9A14015	6010B
Iron	16400		14.1	0.0272	mg/kg dry	1.00	01/15/09 03:52	AH	9A14015	6010B
Lead	55.7		1.41	0.00409	mg/kg dry	1.00	01/15/09 03:52	AH	9A14015	6010B
Magnesium	17500		28.2	0.0596	mg/kg dry	1.00	01/15/09 03:52	AH	9A14015	6010B
Manganese	574		0.282	0.000338	mg/kg dry	1.00	01/15/09 03:52	AH	9A14015	6010B
Nickel	20.9		0.705	0.00145	mg/kg dry	1.00	01/15/09 03:52	AH	9A14015	6010B
Potassium	1910		42.3	0.0705	mg/kg dry	1.00	01/15/09 03:52	AH	9A14015	6010B
Selenium	0.302	J	5.64	0.00860	mg/kg dry	1.00	01/15/09 03:52	AH	9A14015	6010B
Silver	0.140	J	0.705	0.00179	mg/kg dry	1.00	01/15/09 03:52	AH	9A14015	6010B
Sodium	104	J	197	0.478	mg/kg dry	1.00	01/15/09 03:52	AH	9A14015	6010B
Thallium	0.726	J	8.46	0.00829	mg/kg dry	1.00	01/15/09 03:52	AH	9A14015	6010B
Vanadium	16.5		0.705	0.00138	mg/kg dry	1.00	01/15/09 03:52	AH	9A14015	6010B
Zinc	107		2.82	0.00507	mg/kg dry	1.00	01/15/09 03:52	AH	9A14015	6010B
Mercury	0.193		0.0270	0.0109	mg/kg dry	1.00	01/15/09 15:59	MM	9A15039	7471A

Volatile Organic Compounds by EPA 8260B

Methylene Chloride	3.7	J	6.6	0.46	ug/kg dry	1.00	01/13/09 04:17	CDC	9A12047	8260B
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Sample ID: RSA0235-05 (B-8 - Solid)

Sampled: 01/08/09 09:50

Recvd: 01/08/09 12:20

General Chemistry Parameters

Percent Solids	86.5		0.0100	NA	%	1.00	01/14/09 00:00	JU	9A13003	Dry Weight
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Organochlorine Pesticides by EPA Method 8081A

4,4'-DDE	0.925	J	1.90	0.547	ug/kg dry	1.00	01/14/09 20:14	tch	9A11011	8081A
delta-BHC	0.771	J	1.90	0.455	ug/kg dry	1.00	01/14/09 20:14	tch	9A11011	8081A

Semivolatile Organics by GC/MS

Benzo[a]anthracene	10	J, D02	190	3.3	ug/kg dry	1.00	01/19/09 17:22	JLG	9A13076	8270C
Bis(2-ethylhexyl) phthalate	590	D02	190	61	ug/kg dry	1.00	01/19/09 17:22	JLG	9A13076	8270C

TestAmerica Buffalo

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Watts Engineers
3826 Main Street
Buffalo, NY 14226

Work Order: RSA0235
Project: Watts Engineers Artpark Phase II
Project Number: 48000480

Received: 01/08/09
Reported: 02/19/09 16:11

Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: RSA0235-05 (B-8 - Solid) - cont.						Sampled: 01/08/09 09:50		Recvd: 01/08/09 12:20		
Semivolatile Organics by GC/MS - cont.										
Phenanthrene	8.2	J, D02	190	4.0	ug/kg dry	1.00	01/19/09 17:22	JLG	9A13076	8270C
Total Metals by SW 846 Series Methods										
Aluminum	5580		11.1	0.0262	mg/kg dry	1.00	01/15/09 03:57	AH	9A14015	6010B
Arsenic	7.13		2.22	0.00410	mg/kg dry	1.00	01/15/09 03:57	AH	9A14015	6010B
Barium	14.9		0.554	0.000310	mg/kg dry	1.00	01/15/09 03:57	AH	9A14015	6010B
Beryllium	0.459		0.222	0.000366	mg/kg dry	1.00	01/15/09 03:57	AH	9A14015	6010B
Cadmium	0.00222	J	0.222	0.000366	mg/kg dry	1.00	01/15/09 03:57	AH	9A14015	6010B
Calcium	116000	D08	277	0.554	mg/kg dry	5.00	01/15/09 17:53	AH	9A14015	6010B
Chromium	7.70		0.554	0.000976	mg/kg dry	1.00	01/15/09 03:57	AH	9A14015	6010B
Cobalt	6.40		0.554	0.00118	mg/kg dry	1.00	01/15/09 03:57	AH	9A14015	6010B
Copper	15.5		1.11	0.00140	mg/kg dry	1.00	01/15/09 03:57	AH	9A14015	6010B
Iron	11100		11.1	0.0214	mg/kg dry	1.00	01/15/09 03:57	AH	9A14015	6010B
Lead	19.7		1.11	0.00321	mg/kg dry	1.00	01/15/09 03:57	AH	9A14015	6010B
Magnesium	31400		22.2	0.0469	mg/kg dry	1.00	01/15/09 03:57	AH	9A14015	6010B
Manganese	515		0.222	0.000266	mg/kg dry	1.00	01/15/09 03:57	AH	9A14015	6010B
Nickel	12.3		0.554	0.00114	mg/kg dry	1.00	01/15/09 03:57	AH	9A14015	6010B
Potassium	2420		33.3	0.0554	mg/kg dry	1.00	01/15/09 03:57	AH	9A14015	6010B
Silver	0.120	J	0.554	0.00141	mg/kg dry	1.00	01/15/09 03:57	AH	9A14015	6010B
Sodium	143	J	155	0.376	mg/kg dry	1.00	01/15/09 03:57	AH	9A14015	6010B
Vanadium	8.46		0.554	0.00109	mg/kg dry	1.00	01/15/09 03:57	AH	9A14015	6010B
Zinc	69.8		2.22	0.00399	mg/kg dry	1.00	01/15/09 03:57	AH	9A14015	6010B
Volatile Organic Compounds by EPA 8260B										
Methylene Chloride	5.9		5.4	0.38	ug/kg dry	1.00	01/13/09 04:43	CDC	9A12047	8260B
Sample ID: RSA0235-06 (B-9 - Solid)						Sampled: 01/08/09 10:25		Recvd: 01/08/09 12:20		
General Chemistry Parameters										
Percent Solids	92.9		0.0100	NA	%	1.00	01/14/09 00:00	JU	9A13003	Dry Weight
Organochlorine Pesticides by EPA Method 8081A										
4,4'-DDE	2.10		1.77	0.509	ug/kg dry	1.00	01/14/09 20:50	tch	9A11011	8081A
4,4'-DDT	1.45	J	1.77	0.402	ug/kg dry	1.00	01/14/09 20:50	tch	9A11011	8081A
delta-BHC	0.750	J	1.77	0.423	ug/kg dry	1.00	01/14/09 20:50	tch	9A11011	8081A
Dieldrin	0.559	J	1.77	0.423	ug/kg dry	1.00	01/14/09 20:50	tch	9A11011	8081A
Endosulfan I	1.24	J	1.77	0.680	ug/kg dry	1.00	01/14/09 20:50	tch	9A11011	8081A
Semivolatile Organics by GC/MS										
Bis(2-ethylhexyl) phthalate	120	J, D02	180	57	ug/kg dry	1.00	01/19/09 17:45	JLG	9A13076	8270C
Total Metals by SW 846 Series Methods										
Aluminum	9420		10.3	0.0243	mg/kg dry	1.00	01/15/09 04:02	AH	9A14015	6010B
Arsenic	4.51		2.06	0.00381	mg/kg dry	1.00	01/15/09 04:02	AH	9A14015	6010B
Barium	56.7		0.515	0.000288	mg/kg dry	1.00	01/15/09 04:02	AH	9A14015	6010B
Beryllium	0.539		0.206	0.000340	mg/kg dry	1.00	01/15/09 04:02	AH	9A14015	6010B
Cadmium	0.0134	J	0.206	0.000340	mg/kg dry	1.00	01/15/09 04:02	AH	9A14015	6010B
Calcium	67100	D08	258	0.515	mg/kg dry	5.00	01/15/09 17:58	AH	9A14015	6010B
Chromium	12.7		0.515	0.000907	mg/kg dry	1.00	01/15/09 04:02	AH	9A14015	6010B
Cobalt	9.85		0.515	0.00109	mg/kg dry	1.00	01/15/09 04:02	AH	9A14015	6010B
Copper	13.6		1.03	0.00130	mg/kg dry	1.00	01/15/09 04:02	AH	9A14015	6010B
Iron	14900		10.3	0.0199	mg/kg dry	1.00	01/15/09 04:02	AH	9A14015	6010B

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Watts Engineers
3826 Main Street
Buffalo, NY 14226

Work Order: RSA0235

Received: 01/08/09
Reported: 02/19/09 16:11

Project: Watts Engineers Artpark Phase II
Project Number: 48000480

Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: RSA0235-06 (B-9 - Solid) - cont.						Sampled: 01/08/09 10:25		Recvd: 01/08/09 12:20		
Total Metals by SW 846 Series Methods - cont.										
Lead	9.22		1.03	0.00299	mg/kg dry	1.00	01/15/09 04:02	AH	9A14015	6010B
Magnesium	30600		20.6	0.0436	mg/kg dry	1.00	01/15/09 04:02	AH	9A14015	6010B
Manganese	546		0.206	0.000247	mg/kg dry	1.00	01/15/09 04:02	AH	9A14015	6010B
Nickel	21.6		0.515	0.00106	mg/kg dry	1.00	01/15/09 04:02	AH	9A14015	6010B
Potassium	2220		30.9	0.0515	mg/kg dry	1.00	01/15/09 04:02	AH	9A14015	6010B
Silver	0.0175	J	0.515	0.00131	mg/kg dry	1.00	01/15/09 04:02	AH	9A14015	6010B
Sodium	123	J	144	0.349	mg/kg dry	1.00	01/15/09 04:02	AH	9A14015	6010B
Thallium	0.642	J	6.18	0.00606	mg/kg dry	1.00	01/15/09 04:02	AH	9A14015	6010B
Vanadium	14.1		0.515	0.00101	mg/kg dry	1.00	01/15/09 04:02	AH	9A14015	6010B
Zinc	50.9		2.06	0.00371	mg/kg dry	1.00	01/15/09 04:02	AH	9A14015	6010B
Volatile Organic Compounds by EPA 8260B										
Methylene Chloride	6.2		5.2	0.36	ug/kg dry	1.00	01/13/09 05:08	CDC	9A12047	8260B

Watts Engineers
3826 Main Street
Buffalo, NY 14226

Work Order: RSA0235

Project: Watts Engineers Artpark Phase II
Project Number: 48000480

Received: 01/08/09
Reported: 02/19/09 16:11

Sample Summary

SAMPLE IDENTIFICATION	LAB NUMBER	Client Matrix	Date/Time Sampled	Date/Time Received
B-2	RSA0235-01	Solid	01/06/09 14:25	01/08/09 12:20
B-3	RSA0235-02	Solid	01/07/09 10:20	01/08/09 12:20
B-5	RSA0235-03	Solid	01/07/09 09:00	01/08/09 12:20
CULVERT	RSA0235-04	Solid	01/07/09 10:45	01/08/09 12:20
B-8	RSA0235-05	Solid	01/08/09 09:50	01/08/09 12:20
B-9	RSA0235-06	Solid	01/08/09 10:25	01/08/09 12:20

Watts Engineers
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Buffalo, NY 14226

Work Order: RSA0235
Project: Watts Engineers Artpark Phase II
Project Number: 48000480

Received: 01/08/09
Reported: 02/19/09 16:11

Analytical Report

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: RSA0235-01 (B-2 - Solid)						Sampled: 01/06/09 14:25		Recvd: 01/08/09 12:20		
General Chemistry Parameters										
Percent Solids	69.1		0.0100	NA	%	1.00	01/14/09 00:00	JU	9A13003	Dry Weight
Cyanide	ND		1.30	1.13	mg/kg dry	1.00	01/15/09 10:18	jmm	9A14018	9012A
Organochlorine Pesticides by EPA Method 8081A										
4,4'-DDE	ND		475	137	ug/kg dry	200	01/15/09 13:09	tch	9A11011	8081A
4,4'-DDT	327	J	475	108	ug/kg dry	200	01/15/09 13:09	tch	9A11011	8081A
Aldrin	327	J	475	299	ug/kg dry	200	01/15/09 13:09	tch	9A11011	8081A
alpha-BHC	ND		475	270	ug/kg dry	200	01/15/09 13:09	tch	9A11011	8081A
beta-BHC	823		475	343	ug/kg dry	200	01/15/09 13:09	tch	9A11011	8081A
Chlordane	ND		4750	1940	ug/kg dry	200	01/15/09 13:09	tch	9A11011	8081A
delta-BHC	ND		475	114	ug/kg dry	200	01/15/09 13:09	tch	9A11011	8081A
Dieldrin	ND		475	114	ug/kg dry	200	01/15/09 13:09	tch	9A11011	8081A
Endosulfan I	288	J	475	183	ug/kg dry	200	01/15/09 13:09	tch	9A11011	8081A
Endosulfan II	104	J	475	85.4	ug/kg dry	200	01/15/09 13:09	tch	9A11011	8081A
Endosulfan sulfate	ND		475	88.5	ug/kg dry	200	01/15/09 13:09	tch	9A11011	8081A
Endrin	593		475	154	ug/kg dry	200	01/15/09 13:09	tch	9A11011	8081A
Endrin aldehyde	246	J	475	194	ug/kg dry	200	01/15/09 13:09	tch	9A11011	8081A
Endrin ketone	190	J	475	117	ug/kg dry	200	01/15/09 13:09	tch	9A11011	8081A
gamma-BHC (Lindane)	ND		475	262	ug/kg dry	200	01/15/09 13:09	tch	9A11011	8081A
Heptachlor	ND		475	236	ug/kg dry	200	01/15/09 13:09	tch	9A11011	8081A
Heptachlor epoxide	134	J	475	122	ug/kg dry	200	01/15/09 13:09	tch	9A11011	8081A
Methoxychlor	ND		475	127	ug/kg dry	200	01/15/09 13:09	tch	9A11011	8081A
Toxaphene	ND		4750	2760	ug/kg dry	200	01/15/09 13:09	tch	9A11011	8081A
Surr: Decachlorobiphenyl (42-146%)	*	Z3					01/15/09 13:09	tch	9A11011	8081A
Surr: Tetrachloro-m-xylene (37-136%)	*	Z3					01/15/09 13:09	tch	9A11011	8081A
Polychlorinated Biphenyls by EPA Method 8082										
Aroclor 1016 [2C]	ND		2380	464	ug/kg dry	100	01/14/09 13:21	tch	9A13026	8082
Aroclor 1221 [2C]	ND		2380	464	ug/kg dry	100	01/14/09 13:21	tch	9A13026	8082
Aroclor 1232 [2C]	ND		2380	464	ug/kg dry	100	01/14/09 13:21	tch	9A13026	8082
Aroclor 1242 [2C]	ND		2380	515	ug/kg dry	100	01/14/09 13:21	tch	9A13026	8082
Aroclor 1248 [2C]	ND		2380	465	ug/kg dry	100	01/14/09 13:21	tch	9A13026	8082
Aroclor 1254 [2C]	ND		2380	501	ug/kg dry	100	01/14/09 13:21	tch	9A13026	8082
Aroclor 1260 [2C]	ND		2380	501	ug/kg dry	100	01/14/09 13:21	tch	9A13026	8082
Surr: Decachlorobiphenyl [2C] (34-148%)	*	D02					01/14/09 13:21	tch	9A13026	8082
Surr: Tetrachloro-m-xylene [2C] (35-134%)	*	D02					01/14/09 13:21	tch	9A13026	8082
Semivolatile Organics by GC/MS										
2,4,5-Trichlorophenol	ND	D02	1200	260	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
2,4,6-Trichlorophenol	ND	D02	1200	79	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
2,4-Dichlorophenol	ND	D02	1200	63	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
2,4-Dimethylphenol	ND	D02	1200	320	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
2,4-Dinitrophenol	ND	D02	2300	420	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
2,4-Dinitrotoluene	ND	D02	1200	180	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
2,6-Dinitrotoluene	ND	D02	1200	290	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
2-Chloronaphthalene	ND	D02	1200	80	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
2-Chlorophenol	ND	D02	1200	61	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
2-Methylnaphthalene	80	D02, J	1200	14	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
2-Methylphenol	ND	D02	1200	37	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
2-Nitroaniline	ND	D02	2300	380	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
2-Nitrophenol	ND	D02	1200	55	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
1,3'-Dichlorobenzidine	ND	D02	1200	1000	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
3-Nitroaniline	ND	D02	2300	270	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C

Watts Engineers
3826 Main Street
Buffalo, NY 14226

Work Order: RSA0235
Project: Watts Engineers Artpark Phase II
Project Number: 48000480

Received: 01/08/09
Reported: 02/19/09 16:11

Analytical Report

Analyte	Sample Result	Data Qualifiers	Rpt Limif	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: RSA0235-01 (B-2 - Solid) - cont.						Sampled: 01/06/09 14:25		Recvd: 01/08/09 12:20		
<u>Semivolatile Organics by GC/MS - cont.</u>										
4,6-Dinitro-2-methylphenol	ND	D02	2300	410	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
4-Bromophenyl phenyl ether	ND	D02	1200	380	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
4-Chloro-3-methylphenol	ND	D02	1200	49	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
4-Chloroaniline	ND	D02	1200	350	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
4-Chlorophenyl phenyl ether	ND	D02	1200	25	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
4-Methylphenol	ND	D02	1200	67	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
4-Nitroaniline	ND	D02	2300	130	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
4-Nitrophenol	ND	D02	2300	290	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
Acenaphthene	ND	D02	1200	14	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
Acenaphthylene	ND	D02	1200	9.8	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
Acetophenone	ND	D02	1200	61	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
Anthracene	97	D02, J	1200	31	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
Atrazine	ND	D02	1200	53	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
Benzaldehyde	ND	D02	1200	130	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
Benzo[a]anthracene	260	D02, J	1200	21	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
Benzo[a]pyrene	190	D02, J	1200	29	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
Benzo[b]fluoranthene	250	D02, J	1200	23	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
Benzo[g,h,i]perylene	150	D02, J	1200	14	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
Benzo[k]fluoranthene	600	D02, J	1200	13	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
Biphenyl	ND	D02	1200	74	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
Bis(2-chloroethoxy)methane	ND	D02	1200	65	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
Bis(2-chloroethyl)ether	ND	D02	1200	100	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
Bis(2-chloroisopropyl) ether	ND	D02	1200	120	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
Bis(2-ethylhexyl) phthalate	2400	D02	1200	380	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
Butyl benzyl phthalate	ND	D02	1200	320	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
Caprolactam	ND	D02	1200	520	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
Carbazole	ND	D02	1200	14	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
Chrysene	290	D02, J	1200	12	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
Dibenz[a,h]anthracene	59	D02, J	1200	14	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
Dibenzofuran	61	D02, J	1200	12	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
Diethyl phthalate	59	D02, J	1200	36	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
Dimethyl phthalate	ND	D02	1200	31	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
Di-n-butyl phthalate	ND	D02	1200	410	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
Di-n-octyl phthalate	ND	D02	1200	28	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
Fluoranthene	370	D02, J	1200	17	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
Fluorene	59	D02, J	1200	28	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
Hexachlorobenzene	210	D02, J	1200	59	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
Hexachlorobutadiene	ND	D02	1200	61	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
Hexachlorocyclopentadiene	ND	D02	1200	360	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
Hexachloroethane	310	D02, J	1200	92	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
Indeno[1,2,3-cd]pyrene	130	D02, J	1200	33	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
Isophorone	ND	D02	1200	60	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
Naphthalene	59	D02, J	1200	20	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
Nitrobenzene	ND	D02	1200	53	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
N-Nitrosodi-n-propylamine	ND	D02	1200	95	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
N-Nitrosodiphenylamine	ND	D02	1200	65	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
Pentachlorophenol	ND	D02	2300	410	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
Phenanthrene	250	D02, J	1200	25	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
Phenol	ND	D02	1200	130	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C
Pyrene	340	D02, J	1200	7.7	ug/kg dry	5.00	01/19/09 15:50	JLG	9A13076	8270C

TestAmerica Buffalo

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Watts Engineers
3826 Main Street
Buffalo, NY 14226

Work Order: RSA0235
Project: Watts Engineers Artpark Phase II
Project Number: 48000480

Received: 01/08/09
Reported: 02/19/09 16:11

Analytical Report

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: RSA0235-01 (B-2 - Solid) - cont.						Sampled: 01/06/09 14:25		Recvd: 01/08/09 12:20		
Semivolatile Organics by GC/MS - cont.										
Surr: 2,4,6-Tribromophenol (39-146%)	59 %	D02					01/19/09 15:50	JLG	9A13076	8270C
Surr: 2-Fluorobiphenyl (37-120%)	71 %	D02					01/19/09 15:50	JLG	9A13076	8270C
Surr: 2-Fluorophenol (18-120%)	53 %	D02					01/19/09 15:50	JLG	9A13076	8270C
Surr: Nitrobenzene-d5 (34-132%)	67 %	D02					01/19/09 15:50	JLG	9A13076	8270C
Surr: Phenol-d5 (11-120%)	61 %	D02					01/19/09 15:50	JLG	9A13076	8270C
Surr: p-Terphenyl-d14 (58-147%)	62 %	D02					01/19/09 15:50	JLG	9A13076	8270C
Total Metals by SW 846 Series Methods										
Aluminum	4800		15.8	0.0372	mg/kg dry	1.00	01/15/09 03:37	AH	9A14015	6010B
Antimony	49.6		23.6	0.00864	mg/kg dry	1.00	01/15/09 03:37	AH	9A14015	6010B
Arsenic	29.2		3.15	0.00583	mg/kg dry	1.00	01/15/09 03:37	AH	9A14015	6010B
Barium	261		0.788	0.000441	mg/kg dry	1.00	01/15/09 03:37	AH	9A14015	6010B
Beryllium	2.72		0.315	0.000520	mg/kg dry	1.00	01/15/09 03:37	AH	9A14015	6010B
Cadmium	ND		0.315	0.000520	mg/kg dry	1.00	01/15/09 03:37	AH	9A14015	6010B
Calcium	10100		78.8	0.158	mg/kg dry	1.00	01/15/09 03:37	AH	9A14015	6010B
Chromium	21.3		0.788	0.00139	mg/kg dry	1.00	01/15/09 03:37	AH	9A14015	6010B
Cobalt	23.4		0.788	0.00167	mg/kg dry	1.00	01/15/09 03:37	AH	9A14015	6010B
Copper	55.2		1.58	0.00199	mg/kg dry	1.00	01/15/09 03:37	AH	9A14015	6010B
Iron	50700		15.8	0.0304	mg/kg dry	1.00	01/15/09 03:37	AH	9A14015	6010B
Lead	156		1.58	0.00457	mg/kg dry	1.00	01/15/09 03:37	AH	9A14015	6010B
Magnesium	2400		31.5	0.0667	mg/kg dry	1.00	01/15/09 03:37	AH	9A14015	6010B
Manganese	224		0.315	0.000378	mg/kg dry	1.00	01/15/09 03:37	AH	9A14015	6010B
Nickel	66.3		0.788	0.00162	mg/kg dry	1.00	01/15/09 03:37	AH	9A14015	6010B
Potassium	1110		47.3	0.0788	mg/kg dry	1.00	01/15/09 03:37	AH	9A14015	6010B
Selenium	ND		6.31	0.00962	mg/kg dry	1.00	01/15/09 03:37	AH	9A14015	6010B
Silver	0.705	J	0.788	0.00200	mg/kg dry	1.00	01/15/09 03:37	AH	9A14015	6010B
Sodium	467		221	0.534	mg/kg dry	1.00	01/15/09 03:37	AH	9A14015	6010B
Thallium	3.35	J	9.46	0.00927	mg/kg dry	1.00	01/15/09 03:37	AH	9A14015	6010B
Vanadium	15.7		0.788	0.00154	mg/kg dry	1.00	01/15/09 03:37	AH	9A14015	6010B
Zinc	100		3.15	0.00568	mg/kg dry	1.00	01/15/09 03:37	AH	9A14015	6010B
Mercury	1.04		0.0275	0.0111	mg/kg dry	1.00	01/15/09 15:50	MM	9A15039	7471A
Volatile Organic Compounds by EPA 8260B										
1,1,1-Trichloroethane	ND		7.0	0.51	ug/kg dry	1.00	01/13/09 03:01	CDC	9A12047	8260B
1,1,2,2-Tetrachloroethane	ND		7.0	1.1	ug/kg dry	1.00	01/13/09 03:01	CDC	9A12047	8260B
1,1,2-Trichloroethane	ND		7.0	0.35	ug/kg dry	1.00	01/13/09 03:01	CDC	9A12047	8260B
1,1,2-Trichlorotrifluoroethane	ND		7.0	0.74	ug/kg dry	1.00	01/13/09 03:01	CDC	9A12047	8260B
1,1-Dichloroethane	ND		7.0	0.34	ug/kg dry	1.00	01/13/09 03:01	CDC	9A12047	8260B
1,1-Dichloroethene	ND		7.0	0.85	ug/kg dry	1.00	01/13/09 03:01	CDC	9A12047	8260B
1,2,4-Trichlorobenzene	ND		7.0	0.42	ug/kg dry	1.00	01/13/09 03:01	CDC	9A12047	8260B
1,2-Dibromo-3-chloropropane	ND		7.0	1.4	ug/kg dry	1.00	01/13/09 03:01	CDC	9A12047	8260B
1,2-Dibromoethane (EDB)	ND		7.0	0.26	ug/kg dry	1.00	01/13/09 03:01	CDC	9A12047	8260B
1,2-Dichlorobenzene	ND		7.0	1.0	ug/kg dry	1.00	01/13/09 03:01	CDC	9A12047	8260B
1,2-Dichloroethane	ND		7.0	0.35	ug/kg dry	1.00	01/13/09 03:01	CDC	9A12047	8260B
1,2-Dichloropropane	ND		7.0	0.36	ug/kg dry	1.00	01/13/09 03:01	CDC	9A12047	8260B
1,3-Dichlorobenzene	ND		7.0	0.98	ug/kg dry	1.00	01/13/09 03:01	CDC	9A12047	8260B
1,4-Dichlorobenzene	ND		7.0	0.97	ug/kg dry	1.00	01/13/09 03:01	CDC	9A12047	8260B
2-Butanone (MEK)	ND		35	9.5	ug/kg dry	1.00	01/13/09 03:01	CDC	9A12047	8260B
2-Hexanone	ND		35	2.4	ug/kg dry	1.00	01/13/09 03:01	CDC	9A12047	8260B
4-Methyl-2-pentanone (MIBK)	ND		35	2.3	ug/kg dry	1.00	01/13/09 03:01	CDC	9A12047	8260B
Acetone	ND		35	2.7	ug/kg dry	1.00	01/13/09 03:01	CDC	9A12047	8260B
Benzene	ND		7.0	0.34	ug/kg dry	1.00	01/13/09 03:01	CDC	9A12047	8260B
Bromodichloromethane	ND		7.0	0.36	ug/kg dry	1.00	01/13/09 03:01	CDC	9A12047	8260B

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Watts Engineers
3826 Main Street
Buffalo, NY 14226

Work Order: RSA0235
Project: Watts Engineers Artpark Phase II
Project Number: 48000480

Received: 01/08/09
Reported: 02/19/09 16:11

Analytical Report

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: RSA0235-01 (B-2 - Solid) - cont.						Sampled: 01/06/09 14:25		Recvd: 01/08/09 12:20		
<u>Volatile Organic Compounds by EPA 8260B - cont.</u>										
Bromoform	ND		7.0	0.64	ug/kg dry	1.00	01/13/09 03:01	CDC	9A12047	8260B
Bromomethane	ND		7.0	0.64	ug/kg dry	1.00	01/13/09 03:01	CDC	9A12047	8260B
Carbon disulfide	ND		7.0	0.60	ug/kg dry	1.00	01/13/09 03:01	CDC	9A12047	8260B
Carbon Tetrachloride	ND		7.0	0.25	ug/kg dry	1.00	01/13/09 03:01	CDC	9A12047	8260B
Chlorobenzene	ND		7.0	0.30	ug/kg dry	1.00	01/13/09 03:01	CDC	9A12047	8260B
Chlorodibromomethane	ND		7.0	0.38	ug/kg dry	1.00	01/13/09 03:01	CDC	9A12047	8260B
Chloroethane	ND		7.0	1.1	ug/kg dry	1.00	01/13/09 03:01	CDC	9A12047	8260B
Chloroform	3.3	J	7.0	0.43	ug/kg dry	1.00	01/13/09 03:01	CDC	9A12047	8260B
Chloromethane	ND		7.0	0.48	ug/kg dry	1.00	01/13/09 03:01	CDC	9A12047	8260B
cis-1,2-Dichloroethene	ND		7.0	0.34	ug/kg dry	1.00	01/13/09 03:01	CDC	9A12047	8260B
cis-1,3-Dichloropropene	ND		7.0	0.40	ug/kg dry	1.00	01/13/09 03:01	CDC	9A12047	8260B
Cyclohexane	ND		7.0	0.32	ug/kg dry	1.00	01/13/09 03:01	CDC	9A12047	8260B
Dichlorodifluoromethane	ND	L2	7.0	0.58	ug/kg dry	1.00	01/13/09 03:01	CDC	9A12047	8260B
Ethylbenzene	ND		7.0	0.48	ug/kg dry	1.00	01/13/09 03:01	CDC	9A12047	8260B
Isopropylbenzene	ND		7.0	0.46	ug/kg dry	1.00	01/13/09 03:01	CDC	9A12047	8260B
Methyl Acetate	ND		7.0	0.24	ug/kg dry	1.00	01/13/09 03:01	CDC	9A12047	8260B
Methyl tert-Butyl Ether	ND		7.0	0.21	ug/kg dry	1.00	01/13/09 03:01	CDC	9A12047	8260B
Methylcyclohexane	ND		7.0	0.45	ug/kg dry	1.00	01/13/09 03:01	CDC	9A12047	8260B
Methylene Chloride	12		7.0	0.49	ug/kg dry	1.00	01/13/09 03:01	CDC	9A12047	8260B
Styrene	ND		7.0	0.35	ug/kg dry	1.00	01/13/09 03:01	CDC	9A12047	8260B
Tetrachloroethene	7.6		7.0	0.93	ug/kg dry	1.00	01/13/09 03:01	CDC	9A12047	8260B
Toluene	ND		7.0	0.71	ug/kg dry	1.00	01/13/09 03:01	CDC	9A12047	8260B
trans-1,2-Dichloroethene	ND		7.0	0.72	ug/kg dry	1.00	01/13/09 03:01	CDC	9A12047	8260B
trans-1,3-Dichloropropene	ND		7.0	0.34	ug/kg dry	1.00	01/13/09 03:01	CDC	9A12047	8260B
Trichloroethene	ND		7.0	0.48	ug/kg dry	1.00	01/13/09 03:01	CDC	9A12047	8260B
Trichlorofluoromethane	ND		7.0	2.2	ug/kg dry	1.00	01/13/09 03:01	CDC	9A12047	8260B
Vinyl chloride	ND		14	0.28	ug/kg dry	1.00	01/13/09 03:01	CDC	9A12047	8260B
Xylenes, total	ND		4.2	1.3	ug/kg dry	1.00	01/13/09 03:01	CDC	9A12047	8260B
Surr: 1,2-Dichloroethane-d4 (61-136%)	102 %						01/13/09 03:01	CDC	9A12047	8260B
Surr: 4-Bromofluorobenzene (72-126%)	98 %						01/13/09 03:01	CDC	9A12047	8260B
Surr: Toluene-d8 (71-125%)	103 %						01/13/09 03:01	CDC	9A12047	8260B

Watts Engineers
3826 Main Street
Buffalo, NY 14226

Work Order: RSA0235
Project: Watts Engineers Artpark Phase II
Project Number: 48000480

Received: 01/08/09
Reported: 02/19/09 16:11

Analytical Report

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: RSA0235-02 (B-3 - Solid)						Sampled: 01/07/09 10:20		Recvd: 01/08/09 12:20		
General Chemistry Parameters										
Percent Solids	78.1		0.0100	NA	%	1.00	01/14/09 00:00	JU	9A13003	Dry Weight
Cyanide	ND		1.18	1.03	mg/kg dry	1.00	01/15/09 10:18	jmm	9A14018	9012A
Organochlorine Pesticides by EPA Method 8081A										
4,4'-DDE	122		105	30.3	ug/kg dry	50.0	01/14/09 18:26	tch	9A11011	8081A
4,4'-DDT	ND		105	23.9	ug/kg dry	50.0	01/14/09 18:26	tch	9A11011	8081A
Aldrin	ND		105	66.2	ug/kg dry	50.0	01/14/09 18:26	tch	9A11011	8081A
alpha-BHC	ND		105	59.6	ug/kg dry	50.0	01/14/09 18:26	tch	9A11011	8081A
beta-BHC	168		105	76.0	ug/kg dry	50.0	01/14/09 18:26	tch	9A11011	8081A
Chlordane	ND		1050	430	ug/kg dry	50.0	01/14/09 18:26	tch	9A11011	8081A
delta-BHC	ND		105	25.2	ug/kg dry	50.0	01/14/09 18:26	tch	9A11011	8081A
Dieldrin	ND		105	25.2	ug/kg dry	50.0	01/14/09 18:26	tch	9A11011	8081A
Endosulfan I	ND		105	40.4	ug/kg dry	50.0	01/14/09 18:26	tch	9A11011	8081A
Endosulfan II	67.0	J	105	18.9	ug/kg dry	50.0	01/14/09 18:26	tch	9A11011	8081A
Endosulfan sulfate	ND		105	19.6	ug/kg dry	50.0	01/14/09 18:26	tch	9A11011	8081A
Endrin	82.6	J	105	34.0	ug/kg dry	50.0	01/14/09 18:26	tch	9A11011	8081A
Endrin aldehyde	ND		105	42.8	ug/kg dry	50.0	01/14/09 18:26	tch	9A11011	8081A
Endrin ketone	ND		105	25.8	ug/kg dry	50.0	01/14/09 18:26	tch	9A11011	8081A
gamma-BHC (Lindane)	ND		105	57.9	ug/kg dry	50.0	01/14/09 18:26	tch	9A11011	8081A
Heptachlor	ND		105	52.3	ug/kg dry	50.0	01/14/09 18:26	tch	9A11011	8081A
Heptachlor epoxide	ND		105	27.1	ug/kg dry	50.0	01/14/09 18:26	tch	9A11011	8081A
Methoxychlor	ND		105	28.0	ug/kg dry	50.0	01/14/09 18:26	tch	9A11011	8081A
Toxaphene	ND		1050	611	ug/kg dry	50.0	01/14/09 18:26	tch	9A11011	8081A
Surr: Decachlorobiphenyl (42-146%)	4710 %	Z3					01/14/09 18:26	tch	9A11011	8081A
Surr: Tetrachloro-m-xylene (37-136%)	804 %	Z3					01/14/09 18:26	tch	9A11011	8081A
Polychlorinated Biphenyls by EPA Method 8082										
Aroclor 1016 [2C]	ND		2100	411	ug/kg dry	100	01/14/09 13:35	tch	9A13026	8082
Aroclor 1221 [2C]	ND		2100	411	ug/kg dry	100	01/14/09 13:35	tch	9A13026	8082
Aroclor 1232 [2C]	ND		2100	411	ug/kg dry	100	01/14/09 13:35	tch	9A13026	8082
Aroclor 1242 [2C]	ND		2100	456	ug/kg dry	100	01/14/09 13:35	tch	9A13026	8082
Aroclor 1248 [2C]	ND		2100	412	ug/kg dry	100	01/14/09 13:35	tch	9A13026	8082
Aroclor 1254 [2C]	ND		2100	443	ug/kg dry	100	01/14/09 13:35	tch	9A13026	8082
Aroclor 1260 [2C]	ND		2100	443	ug/kg dry	100	01/14/09 13:35	tch	9A13026	8082
Surr: Decachlorobiphenyl [2C] (34-148%)	*	D02					01/14/09 13:35	tch	9A13026	8082
Surr: Tetrachloro-m-xylene [2C] (35-134%)	*	D02					01/14/09 13:35	tch	9A13026	8082
Semivolatile Organics by GC/MS										
2,4,5-Trichlorophenol	ND	D02	1100	230	ug/kg dry	5.00	01/19/09 16:13	JLG	9A13076	8270C
2,4,6-Trichlorophenol	ND	D02	1100	70	ug/kg dry	5.00	01/19/09 16:13	JLG	9A13076	8270C
2,4-Dichlorophenol	ND	D02	1100	56	ug/kg dry	5.00	01/19/09 16:13	JLG	9A13076	8270C
2,4-Dimethylphenol	ND	D02	1100	290	ug/kg dry	5.00	01/19/09 16:13	JLG	9A13076	8270C
2,4-Dinitrophenol	ND	D02	2100	370	ug/kg dry	5.00	01/19/09 16:13	JLG	9A13076	8270C
2,4-Dinitrotoluene	ND	D02	1100	160	ug/kg dry	5.00	01/19/09 16:13	JLG	9A13076	8270C
2,6-Dinitrotoluene	ND	D02	1100	260	ug/kg dry	5.00	01/19/09 16:13	JLG	9A13076	8270C
2-Chloronaphthalene	ND	D02	1100	71	ug/kg dry	5.00	01/19/09 16:13	JLG	9A13076	8270C
2-Chlorophenol	ND	D02	1100	54	ug/kg dry	5.00	01/19/09 16:13	JLG	9A13076	8270C
2-Methylnaphthalene	ND	D02	1100	13	ug/kg dry	5.00	01/19/09 16:13	JLG	9A13076	8270C
2-Methylphenol	ND	D02	1100	33	ug/kg dry	5.00	01/19/09 16:13	JLG	9A13076	8270C
2-Nitroaniline	ND	D02	2100	340	ug/kg dry	5.00	01/19/09 16:13	JLG	9A13076	8270C
2-Nitrophenol	ND	D02	1100	48	ug/kg dry	5.00	01/19/09 16:13	JLG	9A13076	8270C
1,3'-Dichlorobenzidine	ND	D02	1100	930	ug/kg dry	5.00	01/19/09 16:13	JLG	9A13076	8270C
3-Nitroaniline	ND	D02	2100	240	ug/kg dry	5.00	01/19/09 16:13	JLG	9A13076	8270C

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Watts Engineers
3826 Main Street
Buffalo, NY 14226

Work Order: RSA0235
Project: Watts Engineers Artpark Phase II
Project Number: 48000480

Received: 01/08/09
Reported: 02/19/09 16:11

Analytical Report

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: RSA0235-02 (B-3 - Solid) - cont.						Sampled: 01/07/09 10:20		Recvd: 01/08/09 12:20		
<u>Semivolatile Organics by GC/MS - cont.</u>										
4,6-Dinitro-2-methylphenol	ND	D02	2100	370	ug/kg dry	5.00	01/19/09 16:13	JLG	9A13076	8270C
4-Bromophenyl phenyl ether	ND	D02	1100	340	ug/kg dry	5.00	01/19/09 16:13	JLG	9A13076	8270C
4-Chloro-3-methylphenol	ND	D02	1100	44	ug/kg dry	5.00	01/19/09 16:13	JLG	9A13076	8270C
4-Chloroaniline	ND	D02	1100	310	ug/kg dry	5.00	01/19/09 16:13	JLG	9A13076	8270C
4-Chlorophenyl phenyl ether	ND	D02	1100	23	ug/kg dry	5.00	01/19/09 16:13	JLG	9A13076	8270C
4-Methylphenol	ND	D02	1100	59	ug/kg dry	5.00	01/19/09 16:13	JLG	9A13076	8270C
4-Nitroaniline	ND	D02	2100	120	ug/kg dry	5.00	01/19/09 16:13	JLG	9A13076	8270C
4-Nitrophenol	ND	D02	2100	260	ug/kg dry	5.00	01/19/09 16:13	JLG	9A13076	8270C
Acenaphthene	ND	D02	1100	12	ug/kg dry	5.00	01/19/09 16:13	JLG	9A13076	8270C
Acenaphthylene	ND	D02	1100	8.7	ug/kg dry	5.00	01/19/09 16:13	JLG	9A13076	8270C
Acetophenone	ND	D02	1100	54	ug/kg dry	5.00	01/19/09 16:13	JLG	9A13076	8270C
Anthracene	96	D02, J	1100	27	ug/kg dry	5.00	01/19/09 16:13	JLG	9A13076	8270C
Atrazine	ND	D02	1100	47	ug/kg dry	5.00	01/19/09 16:13	JLG	9A13076	8270C
Benzaldehyde	ND	D02	1100	120	ug/kg dry	5.00	01/19/09 16:13	JLG	9A13076	8270C
Benzo[a]anthracene	270	D02, J	1100	18	ug/kg dry	5.00	01/19/09 16:13	JLG	9A13076	8270C
Benzo[a]pyrene	190	D02, J	1100	26	ug/kg dry	5.00	01/19/09 16:13	JLG	9A13076	8270C
Benzo[b]fluoranthene	210	D02, J	1100	21	ug/kg dry	5.00	01/19/09 16:13	JLG	9A13076	8270C
Benzo[g,h,i]perylene	120	D02, J	1100	13	ug/kg dry	5.00	01/19/09 16:13	JLG	9A13076	8270C
Benzo[k]fluoranthene	520	D02, J	1100	12	ug/kg dry	5.00	01/19/09 16:13	JLG	9A13076	8270C
Biphenyl	ND	D02	1100	66	ug/kg dry	5.00	01/19/09 16:13	JLG	9A13076	8270C
Bis(2-chloroethoxy)methane	ND	D02	1100	58	ug/kg dry	5.00	01/19/09 16:13	JLG	9A13076	8270C
Bis(2-chloroethyl)ether	ND	D02	1100	92	ug/kg dry	5.00	01/19/09 16:13	JLG	9A13076	8270C
Bis(2-chloroisopropyl) ether	ND	D02	1100	110	ug/kg dry	5.00	01/19/09 16:13	JLG	9A13076	8270C
Bis(2-ethylhexyl) phthalate	1300	D02	1100	340	ug/kg dry	5.00	01/19/09 16:13	JLG	9A13076	8270C
Butyl benzyl phthalate	ND	D02	1100	280	ug/kg dry	5.00	01/19/09 16:13	JLG	9A13076	8270C
Caprolactam	ND	D02	1100	460	ug/kg dry	5.00	01/19/09 16:13	JLG	9A13076	8270C
Carbazole	ND	D02	1100	12	ug/kg dry	5.00	01/19/09 16:13	JLG	9A13076	8270C
Chrysene	240	D02, J	1100	11	ug/kg dry	5.00	01/19/09 16:13	JLG	9A13076	8270C
Dibenz[a,h]anthracene	48	D02, J	1100	12	ug/kg dry	5.00	01/19/09 16:13	JLG	9A13076	8270C
Dibenzofuran	ND	D02	1100	11	ug/kg dry	5.00	01/19/09 16:13	JLG	9A13076	8270C
Diethyl phthalate	63	D02, J	1100	32	ug/kg dry	5.00	01/19/09 16:13	JLG	9A13076	8270C
Dimethyl phthalate	ND	D02	1100	28	ug/kg dry	5.00	01/19/09 16:13	JLG	9A13076	8270C
Di-n-butyl phthalate	420	D02, J	1100	370	ug/kg dry	5.00	01/19/09 16:13	JLG	9A13076	8270C
Di-n-octyl phthalate	ND	D02	1100	25	ug/kg dry	5.00	01/19/09 16:13	JLG	9A13076	8270C
Fluoranthene	560	D02, J	1100	15	ug/kg dry	5.00	01/19/09 16:13	JLG	9A13076	8270C
Fluorene	ND	D02	1100	24	ug/kg dry	5.00	01/19/09 16:13	JLG	9A13076	8270C
Hexachlorobenzene	ND	D02	1100	53	ug/kg dry	5.00	01/19/09 16:13	JLG	9A13076	8270C
Hexachlorobutadiene	ND	D02	1100	54	ug/kg dry	5.00	01/19/09 16:13	JLG	9A13076	8270C
Hexachlorocyclopentadiene	ND	D02	1100	320	ug/kg dry	5.00	01/19/09 16:13	JLG	9A13076	8270C
Hexachloroethane	ND	D02	1100	82	ug/kg dry	5.00	01/19/09 16:13	JLG	9A13076	8270C
Indeno[1,2,3-cd]pyrene	110	D02, J	1100	29	ug/kg dry	5.00	01/19/09 16:13	JLG	9A13076	8270C
Isophorone	ND	D02	1100	53	ug/kg dry	5.00	01/19/09 16:13	JLG	9A13076	8270C
Naphthalene	ND	D02	1100	18	ug/kg dry	5.00	01/19/09 16:13	JLG	9A13076	8270C
Nitrobenzene	ND	D02	1100	47	ug/kg dry	5.00	01/19/09 16:13	JLG	9A13076	8270C
N-Nitrosodi-n-propylamine	ND	D02	1100	84	ug/kg dry	5.00	01/19/09 16:13	JLG	9A13076	8270C
N-Nitrosodiphenylamine	ND	D02	1100	58	ug/kg dry	5.00	01/19/09 16:13	JLG	9A13076	8270C
Pentachlorophenol	ND	D02	2100	360	ug/kg dry	5.00	01/19/09 16:13	JLG	9A13076	8270C
Phenanthrene	410	D02, J	1100	22	ug/kg dry	5.00	01/19/09 16:13	JLG	9A13076	8270C
Phenol	ND	D02	1100	110	ug/kg dry	5.00	01/19/09 16:13	JLG	9A13076	8270C
Pyrene	430	D02, J	1100	6.9	ug/kg dry	5.00	01/19/09 16:13	JLG	9A13076	8270C

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Watts Engineers
13826 Main Street
Buffalo, NY 14226

Work Order: RSA0235
Project: Watts Engineers Artpark Phase II
Project Number: 48000480

Received: 01/08/09
Reported: 02/19/09 16:11

Analytical Report

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: RSA0235-02 (B-3 - Solid) - cont.						Sampled: 01/07/09 10:20		Recvd: 01/08/09 12:20		
Semivolatile Organics by GC/MS - cont.										
Surr: 2,4,6-Tribromophenol (39-146%)	59 %	D02					01/19/09 16:13	JLG	9A13076	8270C
Surr: 2-Fluorobiphenyl (37-120%)	61 %	D02					01/19/09 16:13	JLG	9A13076	8270C
Surr: 2-Fluorophenol (18-120%)	46 %	D02					01/19/09 16:13	JLG	9A13076	8270C
Surr: Nitrobenzene-d5 (34-132%)	55 %	D02					01/19/09 16:13	JLG	9A13076	8270C
Surr: Phenol-d5 (11-120%)	53 %	D02					01/19/09 16:13	JLG	9A13076	8270C
Surr: p-Terphenyl-d14 (58-147%)	60 %	D02					01/19/09 16:13	JLG	9A13076	8270C
Total Metals by SW 846 Series Methods										
Aluminum	5690		13.4	0.0316	mg/kg dry	1.00	01/15/09 03:42	AH	9A14015	6010B
Antimony	114		20.1	0.00735	mg/kg dry	1.00	01/15/09 03:42	AH	9A14015	6010B
Arsenic	27.5		2.68	0.00496	mg/kg dry	1.00	01/15/09 03:42	AH	9A14015	6010B
Barium	176		0.670	0.000375	mg/kg dry	1.00	01/15/09 03:42	AH	9A14015	6010B
Beryllium	0.466		0.268	0.000442	mg/kg dry	1.00	01/15/09 03:42	AH	9A14015	6010B
Cadmium	0.513		0.268	0.000442	mg/kg dry	1.00	01/15/09 03:42	AH	9A14015	6010B
Calcium	10500		67.0	0.134	mg/kg dry	1.00	01/15/09 03:42	AH	9A14015	6010B
Chromium	28.2		0.670	0.00118	mg/kg dry	1.00	01/15/09 03:42	AH	9A14015	6010B
Cobalt	6.04		0.670	0.00142	mg/kg dry	1.00	01/15/09 03:42	AH	9A14015	6010B
Copper	51.5		1.34	0.00169	mg/kg dry	1.00	01/15/09 03:42	AH	9A14015	6010B
Iron	20800		13.4	0.0259	mg/kg dry	1.00	01/15/09 03:42	AH	9A14015	6010B
Lead	299		1.34	0.00389	mg/kg dry	1.00	01/15/09 03:42	AH	9A14015	6010B
Magnesium	6500		26.8	0.0567	mg/kg dry	1.00	01/15/09 03:42	AH	9A14015	6010B
Manganese	156		0.268	0.000322	mg/kg dry	1.00	01/15/09 03:42	AH	9A14015	6010B
Nickel	18.5		0.670	0.00138	mg/kg dry	1.00	01/15/09 03:42	AH	9A14015	6010B
Potassium	1150		40.2	0.0670	mg/kg dry	1.00	01/15/09 03:42	AH	9A14015	6010B
Selenium	0.586	J	5.36	0.00818	mg/kg dry	1.00	01/15/09 03:42	AH	9A14015	6010B
Silver	0.583	J	0.670	0.00170	mg/kg dry	1.00	01/15/09 03:42	AH	9A14015	6010B
Sodium	89.1	J	188	0.454	mg/kg dry	1.00	01/15/09 03:42	AH	9A14015	6010B
Thallium	1.88	J	8.04	0.00788	mg/kg dry	1.00	01/15/09 03:42	AH	9A14015	6010B
Vanadium	20.7		0.670	0.00131	mg/kg dry	1.00	01/15/09 03:42	AH	9A14015	6010B
Zinc	101		2.68	0.00483	mg/kg dry	1.00	01/15/09 03:42	AH	9A14015	6010B
Mercury	1.57		0.123	0.0497	mg/kg dry	5.00	01/15/09 17:01	MM	9A15039	7471A
Volatile Organic Compounds by EPA 8260B										
1,1,1-Trichloroethane	ND		6.2	0.45	ug/kg dry	1.00	01/13/09 03:26	CDC	9A12047	8260B
1,1,2,2-Tetrachloroethane	ND		6.2	1.0	ug/kg dry	1.00	01/13/09 03:26	CDC	9A12047	8260B
1,1,2-Trichloroethane	ND		6.2	0.31	ug/kg dry	1.00	01/13/09 03:26	CDC	9A12047	8260B
1,1,2-Trichlorotrifluoroethane	ND		6.2	0.65	ug/kg dry	1.00	01/13/09 03:26	CDC	9A12047	8260B
1,1-Dichloroethane	ND		6.2	0.30	ug/kg dry	1.00	01/13/09 03:26	CDC	9A12047	8260B
1,1-Dichloroethene	ND		6.2	0.76	ug/kg dry	1.00	01/13/09 03:26	CDC	9A12047	8260B
1,2,4-Trichlorobenzene	ND		6.2	0.38	ug/kg dry	1.00	01/13/09 03:26	CDC	9A12047	8260B
1,2-Dibromo-3-chloropropane	ND		6.2	1.2	ug/kg dry	1.00	01/13/09 03:26	CDC	9A12047	8260B
1,2-Dibromoethane (EDB)	ND		6.2	0.23	ug/kg dry	1.00	01/13/09 03:26	CDC	9A12047	8260B
1,2-Dichlorobenzene	ND		6.2	0.93	ug/kg dry	1.00	01/13/09 03:26	CDC	9A12047	8260B
1,2-Dichloroethane	ND		6.2	0.31	ug/kg dry	1.00	01/13/09 03:26	CDC	9A12047	8260B
1,2-Dichloropropane	ND		6.2	0.32	ug/kg dry	1.00	01/13/09 03:26	CDC	9A12047	8260B
1,3-Dichlorobenzene	ND		6.2	0.87	ug/kg dry	1.00	01/13/09 03:26	CDC	9A12047	8260B
1,4-Dichlorobenzene	ND		6.2	0.86	ug/kg dry	1.00	01/13/09 03:26	CDC	9A12047	8260B
2-Butanone (MEK)	ND		31	8.4	ug/kg dry	1.00	01/13/09 03:26	CDC	9A12047	8260B
2-Hexanone	ND		31	2.1	ug/kg dry	1.00	01/13/09 03:26	CDC	9A12047	8260B
4-Methyl-2-pentanone (MIBK)	ND		31	2.0	ug/kg dry	1.00	01/13/09 03:26	CDC	9A12047	8260B
Acetone	15	J	31	2.4	ug/kg dry	1.00	01/13/09 03:26	CDC	9A12047	8260B
Benzene	ND		6.2	0.30	ug/kg dry	1.00	01/13/09 03:26	CDC	9A12047	8260B
Bromodichloromethane	ND		6.2	0.32	ug/kg dry	1.00	01/13/09 03:26	CDC	9A12047	8260B

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Work Order: RSA0235
Project: Watts Engineers Artpark Phase II
Project Number: 48000480

Received: 01/08/09
Reported: 02/19/09 16:11

Analytical Report

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: RSA0235-02 (B-3 - Solid) - cont.						Sampled: 01/07/09 10:20		Recvd: 01/08/09 12:20		
<u>Volatile Organic Compounds by EPA 8260B - cont.</u>										
Bromoforn	ND		6.2	0.57	ug/kg dry	1.00	01/13/09 03:26	CDC	9A12047	8260B
Bromomethane	ND		6.2	0.57	ug/kg dry	1.00	01/13/09 03:26	CDC	9A12047	8260B
Carbon disulfide	2.1	J	6.2	0.53	ug/kg dry	1.00	01/13/09 03:26	CDC	9A12047	8260B
Carbon Tetrachloride	ND		6.2	0.22	ug/kg dry	1.00	01/13/09 03:26	CDC	9A12047	8260B
Chlorobenzene	ND		6.2	0.27	ug/kg dry	1.00	01/13/09 03:26	CDC	9A12047	8260B
Chlorodibromomethane	ND		6.2	0.34	ug/kg dry	1.00	01/13/09 03:26	CDC	9A12047	8260B
Chloroethane	ND		6.2	1.0	ug/kg dry	1.00	01/13/09 03:26	CDC	9A12047	8260B
Chloroform	3.6	J	6.2	0.38	ug/kg dry	1.00	01/13/09 03:26	CDC	9A12047	8260B
Chloromethane	ND		6.2	0.43	ug/kg dry	1.00	01/13/09 03:26	CDC	9A12047	8260B
cis-1,2-Dichloroethene	ND		6.2	0.30	ug/kg dry	1.00	01/13/09 03:26	CDC	9A12047	8260B
cis-1,3-Dichloropropene	ND		6.2	0.35	ug/kg dry	1.00	01/13/09 03:26	CDC	9A12047	8260B
Cyclohexane	ND		6.2	0.28	ug/kg dry	1.00	01/13/09 03:26	CDC	9A12047	8260B
Dichlorodifluoromethane	ND	L2	6.2	0.51	ug/kg dry	1.00	01/13/09 03:26	CDC	9A12047	8260B
Ethylbenzene	ND		6.2	0.43	ug/kg dry	1.00	01/13/09 03:26	CDC	9A12047	8260B
Isopropylbenzene	ND		6.2	0.40	ug/kg dry	1.00	01/13/09 03:26	CDC	9A12047	8260B
Methyl Acetate	ND		6.2	0.21	ug/kg dry	1.00	01/13/09 03:26	CDC	9A12047	8260B
Methyl tert-Butyl Ether	ND		6.2	0.19	ug/kg dry	1.00	01/13/09 03:26	CDC	9A12047	8260B
Methylcyclohexane	ND		6.2	0.40	ug/kg dry	1.00	01/13/09 03:26	CDC	9A12047	8260B
Methylene Chloride	6.0	J	6.2	0.43	ug/kg dry	1.00	01/13/09 03:26	CDC	9A12047	8260B
o-Styrene	ND		6.2	0.31	ug/kg dry	1.00	01/13/09 03:26	CDC	9A12047	8260B
Tetrachloroethene	6.0	J	6.2	0.83	ug/kg dry	1.00	01/13/09 03:26	CDC	9A12047	8260B
Toluene	ND		6.2	0.63	ug/kg dry	1.00	01/13/09 03:26	CDC	9A12047	8260B
trans-1,2-Dichloroethene	ND		6.2	0.64	ug/kg dry	1.00	01/13/09 03:26	CDC	9A12047	8260B
trans-1,3-Dichloropropene	ND		6.2	0.30	ug/kg dry	1.00	01/13/09 03:26	CDC	9A12047	8260B
Trichloroethene	ND		6.2	0.43	ug/kg dry	1.00	01/13/09 03:26	CDC	9A12047	8260B
Trichlorofluoromethane	ND		6.2	1.9	ug/kg dry	1.00	01/13/09 03:26	CDC	9A12047	8260B
Vinyl chloride	ND		12	0.25	ug/kg dry	1.00	01/13/09 03:26	CDC	9A12047	8260B
Xylenes, total	ND		3.7	1.1	ug/kg dry	1.00	01/13/09 03:26	CDC	9A12047	8260B
Surr: 1,2-Dichloroethane-d4 (61-136%)	103 %						01/13/09 03:26	CDC	9A12047	8260B
Surr: 4-Bromofluorobenzene (72-126%)	100 %						01/13/09 03:26	CDC	9A12047	8260B
Surr: Toluene-d8 (71-125%)	106 %						01/13/09 03:26	CDC	9A12047	8260B

Watts Engineers
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Work Order: RSA0235
Project: Watts Engineers Artpark Phase II
Project Number: 48000480

Received: 01/08/09
Reported: 02/19/09 16:11

Analytical Report

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: RSA0235-03 (B-5 - Solid)						Sampled: 01/07/09 09:00		Recvd: 01/08/09 12:20		
General Chemistry Parameters										
Percent Solids	80.5		0.0100	NA	%	1.00	01/14/09 00:00	JU	9A13003	Dry Weight
Cyanide	ND		1.12	0.971	mg/kg dry	1.00	01/15/09 10:19	jmm	9A14018	9012A
Organochlorine Pesticides by EPA Method 8081A										
4,4'-DDE	ND		20.4	5.87	ug/kg dry	10.0	01/15/09 15:32	tch	9A11011	8081A
4,4'-DDT	ND		20.4	4.64	ug/kg dry	10.0	01/15/09 15:32	tch	9A11011	8081A
Aldrin	ND		20.4	12.8	ug/kg dry	10.0	01/15/09 15:32	tch	9A11011	8081A
alpha-BHC	ND		20.4	11.6	ug/kg dry	10.0	01/15/09 15:32	tch	9A11011	8081A
beta-BHC	46.8		20.4	14.7	ug/kg dry	10.0	01/15/09 15:32	tch	9A11011	8081A
Chlordane	ND		204	83.3	ug/kg dry	10.0	01/15/09 15:32	tch	9A11011	8081A
delta-BHC	ND		20.4	4.88	ug/kg dry	10.0	01/15/09 15:32	tch	9A11011	8081A
Dieldrin	ND		20.4	4.88	ug/kg dry	10.0	01/15/09 15:32	tch	9A11011	8081A
Endosulfan I	ND		20.4	7.84	ug/kg dry	10.0	01/15/09 15:32	tch	9A11011	8081A
Endosulfan II	5.93	J	20.4	3.66	ug/kg dry	10.0	01/15/09 15:32	tch	9A11011	8081A
Endosulfan sulfate	ND		20.4	3.80	ug/kg dry	10.0	01/15/09 15:32	tch	9A11011	8081A
Endrin	11.9	J	20.4	6.59	ug/kg dry	10.0	01/15/09 15:32	tch	9A11011	8081A
Endrin aldehyde	23.2		20.4	8.30	ug/kg dry	10.0	01/15/09 15:32	tch	9A11011	8081A
Endrin ketone	ND		20.4	5.01	ug/kg dry	10.0	01/15/09 15:32	tch	9A11011	8081A
gamma-BHC (Lindane)	ND		20.4	11.2	ug/kg dry	10.0	01/15/09 15:32	tch	9A11011	8081A
Heptachlor	ND		20.4	10.1	ug/kg dry	10.0	01/15/09 15:32	tch	9A11011	8081A
Heptachlor epoxide	6.92	J	20.4	5.25	ug/kg dry	10.0	01/15/09 15:32	tch	9A11011	8081A
Methoxychlor	ND		20.4	5.43	ug/kg dry	10.0	01/15/09 15:32	tch	9A11011	8081A
Toxaphene	ND		204	118	ug/kg dry	10.0	01/15/09 15:32	tch	9A11011	8081A
Surr: Decachlorobiphenyl (42-146%)	351 %	Z3					01/15/09 15:32	tch	9A11011	8081A
Surr: Tetrachloro-m-xylene (37-136%)	125 %	Z3					01/15/09 15:32	tch	9A11011	8081A
Polychlorinated Biphenyls by EPA Method 8082										
Aroclor 1016 [2C]	ND		408	79.6	ug/kg dry	20.0	01/14/09 13:49	tch	9A13026	8082
Aroclor 1221 [2C]	ND		408	79.6	ug/kg dry	20.0	01/14/09 13:49	tch	9A13026	8082
Aroclor 1232 [2C]	ND		408	79.6	ug/kg dry	20.0	01/14/09 13:49	tch	9A13026	8082
Aroclor 1242 [2C]	ND		408	88.4	ug/kg dry	20.0	01/14/09 13:49	tch	9A13026	8082
Aroclor 1248 [2C]	ND		408	79.9	ug/kg dry	20.0	01/14/09 13:49	tch	9A13026	8082
Aroclor 1254 [2C]	ND		408	86.0	ug/kg dry	20.0	01/14/09 13:49	tch	9A13026	8082
Aroclor 1260 [2C]	ND		408	86.0	ug/kg dry	20.0	01/14/09 13:49	tch	9A13026	8082
Surr: Decachlorobiphenyl [2C] (34-148%)	*	D02					01/14/09 13:49	tch	9A13026	8082
Surr: Tetrachloro-m-xylene [2C] (35-134%)	*	D02					01/14/09 13:49	tch	9A13026	8082
Semivolatile Organics by GC/MS										
2,4,5-Trichlorophenol	ND	D02	1000	220	ug/kg dry	5.00	01/19/09 16:36	JLG	9A13076	8270C
2,4,6-Trichlorophenol	ND	D02	1000	68	ug/kg dry	5.00	01/19/09 16:36	JLG	9A13076	8270C
2,4-Dichlorophenol	ND	D02	1000	54	ug/kg dry	5.00	01/19/09 16:36	JLG	9A13076	8270C
2,4-Dimethylphenol	ND	D02	1000	280	ug/kg dry	5.00	01/19/09 16:36	JLG	9A13076	8270C
2,4-Dinitrophenol	ND	D02	2000	360	ug/kg dry	5.00	01/19/09 16:36	JLG	9A13076	8270C
2,4-Dinitrotoluene	ND	D02	1000	160	ug/kg dry	5.00	01/19/09 16:36	JLG	9A13076	8270C
2,6-Dinitrotoluene	ND	D02	1000	250	ug/kg dry	5.00	01/19/09 16:36	JLG	9A13076	8270C
2-Chloronaphthalene	ND	D02	1000	69	ug/kg dry	5.00	01/19/09 16:36	JLG	9A13076	8270C
2-Chlorophenol	ND	D02	1000	32	ug/kg dry	5.00	01/19/09 16:36	JLG	9A13076	8270C
2-Methylnaphthalene	110	J, D02	1000	12	ug/kg dry	5.00	01/19/09 16:36	JLG	9A13076	8270C
2-Methylphenol	ND	D02	1000	32	ug/kg dry	5.00	01/19/09 16:36	JLG	9A13076	8270C
2-Nitroaniline	ND	D02	2000	330	ug/kg dry	5.00	01/19/09 16:36	JLG	9A13076	8270C
2-Nitrophenol	ND	D02	1000	47	ug/kg dry	5.00	01/19/09 16:36	JLG	9A13076	8270C
2,3-Dichlorobenzidine	ND	D02	1000	900	ug/kg dry	5.00	01/19/09 16:36	JLG	9A13076	8270C
3-Nitroaniline	ND	D02	2000	240	ug/kg dry	5.00	01/19/09 16:36	JLG	9A13076	8270C

Watts Engineers
3826 Main Street
Buffalo, NY 14226

Work Order: RSA0235
Project: Watts Engineers Artpark Phase II
Project Number: 48000480

Received: 01/08/09
Reported: 02/19/09 16:11

Analytical Report

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: RSA0235-03 (B-5 - Solid) - cont.						Sampled: 01/07/09 09:00		Recvd: 01/08/09 12:20		
Semivolatile Organics by GC/MS - cont.										
4,6-Dinitro-2-methylphenol	ND	D02	2000	360	ug/kg dry	5.00	01/19/09 16:36	JLG	9A13076	8270C
4-Bromophenyl phenyl ether	ND	D02	1000	330	ug/kg dry	5.00	01/19/09 16:36	JLG	9A13076	8270C
4-Chloro-3-methylphenol	ND	D02	1000	42	ug/kg dry	5.00	01/19/09 16:36	JLG	9A13076	8270C
4-Chloroaniline	ND	D02	1000	300	ug/kg dry	5.00	01/19/09 16:36	JLG	9A13076	8270C
4-Chlorophenyl phenyl ether	ND	D02	1000	22	ug/kg dry	5.00	01/19/09 16:36	JLG	9A13076	8270C
4-Methylphenol	ND	D02	1000	57	ug/kg dry	5.00	01/19/09 16:36	JLG	9A13076	8270C
4-Nitroaniline	ND	D02	2000	110	ug/kg dry	5.00	01/19/09 16:36	JLG	9A13076	8270C
4-Nitrophenol	ND	D02	2000	250	ug/kg dry	5.00	01/19/09 16:36	JLG	9A13076	8270C
Acenaphthene	ND	D02	1000	12	ug/kg dry	5.00	01/19/09 16:36	JLG	9A13076	8270C
Acenaphthylene	ND	D02	1000	8.4	ug/kg dry	5.00	01/19/09 16:36	JLG	9A13076	8270C
Acetophenone	ND	D02	1000	53	ug/kg dry	5.00	01/19/09 16:36	JLG	9A13076	8270C
Andracene	ND	D02	1000	26	ug/kg dry	5.00	01/19/09 16:36	JLG	9A13076	8270C
Atrazine	ND	D02	1000	46	ug/kg dry	5.00	01/19/09 16:36	JLG	9A13076	8270C
Benzaldehyde	ND	D02	1000	110	ug/kg dry	5.00	01/19/09 16:36	JLG	9A13076	8270C
Benzo[a]anthracene	73	J, D02	1000	18	ug/kg dry	5.00	01/19/09 16:36	JLG	9A13076	8270C
Benzo[a]pyrene	57	J, D02	1000	25	ug/kg dry	5.00	01/19/09 16:36	JLG	9A13076	8270C
Benzo[b]fluoranthene	51	J, D02	1000	20	ug/kg dry	5.00	01/19/09 16:36	JLG	9A13076	8270C
Benzo[g,h,i]perylene	ND	D02	1000	12	ug/kg dry	5.00	01/19/09 16:36	JLG	9A13076	8270C
Benzo[k]fluoranthene	440	J, D02	1000	11	ug/kg dry	5.00	01/19/09 16:36	JLG	9A13076	8270C
Biphenyl	ND	D02	1000	64	ug/kg dry	5.00	01/19/09 16:36	JLG	9A13076	8270C
Bis(2-chloroethoxy)methane	ND	D02	1000	56	ug/kg dry	5.00	01/19/09 16:36	JLG	9A13076	8270C
Bis(2-chloroethyl)ether	ND	D02	1000	89	ug/kg dry	5.00	01/19/09 16:36	JLG	9A13076	8270C
Bis(2-chloroisopropyl) ether	ND	D02	1000	110	ug/kg dry	5.00	01/19/09 16:36	JLG	9A13076	8270C
Bis(2-ethylhexyl) phthalate	1400	D02	1000	330	ug/kg dry	5.00	01/19/09 16:36	JLG	9A13076	8270C
Butyl benzyl phthalate	ND	D02	1000	280	ug/kg dry	5.00	01/19/09 16:36	JLG	9A13076	8270C
Caprolactam	ND	D02	1000	450	ug/kg dry	5.00	01/19/09 16:36	JLG	9A13076	8270C
Carbazole	ND	D02	1000	12	ug/kg dry	5.00	01/19/09 16:36	JLG	9A13076	8270C
Chrysene	55	J, D02	1000	10	ug/kg dry	5.00	01/19/09 16:36	JLG	9A13076	8270C
Dibenz[a,h]anthracene	ND	D02	1000	12	ug/kg dry	5.00	01/19/09 16:36	JLG	9A13076	8270C
Dibenzofuran	ND	D02	1000	11	ug/kg dry	5.00	01/19/09 16:36	JLG	9A13076	8270C
Diethyl phthalate	ND	D02	1000	31	ug/kg dry	5.00	01/19/09 16:36	JLG	9A13076	8270C
Dimethyl phthalate	ND	D02	1000	27	ug/kg dry	5.00	01/19/09 16:36	JLG	9A13076	8270C
Di-n-butyl phthalate	ND	D02	1000	360	ug/kg dry	5.00	01/19/09 16:36	JLG	9A13076	8270C
Di-n-octyl phthalate	ND	D02	1000	24	ug/kg dry	5.00	01/19/09 16:36	JLG	9A13076	8270C
Fluoranthene	79	D02, J	1000	15	ug/kg dry	5.00	01/19/09 16:36	JLG	9A13076	8270C
Fluorene	ND	D02	1000	24	ug/kg dry	5.00	01/19/09 16:36	JLG	9A13076	8270C
Hexachlorobenzene	ND	D02	1000	51	ug/kg dry	5.00	01/19/09 16:36	JLG	9A13076	8270C
Hexachlorobutadiene	ND	D02	1000	53	ug/kg dry	5.00	01/19/09 16:36	JLG	9A13076	8270C
Hexachlorocyclopentadiene	ND	D02	1000	310	ug/kg dry	5.00	01/19/09 16:36	JLG	9A13076	8270C
Hexachloroethane	ND	D02	1000	80	ug/kg dry	5.00	01/19/09 16:36	JLG	9A13076	8270C
Indeno[1,2,3-cd]pyrene	ND	D02	1000	28	ug/kg dry	5.00	01/19/09 16:36	JLG	9A13076	8270C
Isophorone	ND	D02	1000	51	ug/kg dry	5.00	01/19/09 16:36	JLG	9A13076	8270C
Naphthalene	96	D02, J	1000	17	ug/kg dry	5.00	01/19/09 16:36	JLG	9A13076	8270C
Nitrobenzene	ND	D02	1000	46	ug/kg dry	5.00	01/19/09 16:36	JLG	9A13076	8270C
N-Nitrosodi-n-propylamine	ND	D02	1000	82	ug/kg dry	5.00	01/19/09 16:36	JLG	9A13076	8270C
N-Nitrosodiphenylamine	ND	D02	1000	56	ug/kg dry	5.00	01/19/09 16:36	JLG	9A13076	8270C
Pentachlorophenol	ND	D02	2000	350	ug/kg dry	5.00	01/19/09 16:36	JLG	9A13076	8270C
Phenanthrene	110	J, D02	1000	22	ug/kg dry	5.00	01/19/09 16:36	JLG	9A13076	8270C
Phenol	ND	D02	1000	110	ug/kg dry	5.00	01/19/09 16:36	JLG	9A13076	8270C
Pyrene	61	D02, J	1000	6.7	ug/kg dry	5.00	01/19/09 16:36	JLG	9A13076	8270C

TestAmerica Buffalo

10 Hazelwood Drive Amherst, NY 14228 tel 716-691-2600 fax 716-691-7991

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Watts Engineers
13826 Main Street
Buffalo, NY 14226

Work Order: RSA0235
Project: Watts Engineers Artpark Phase II
Project Number: 48000480

Received: 01/08/09
Reported: 02/19/09 16:11

Analytical Report

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: RSA0235-03 (B-5 - Solid) - cont.						Sampled: 01/07/09 09:00		Recvd: 01/08/09 12:20		
Semivolatile Organics by GC/MS - cont.										
Surr: 2,4,6-Tribromophenol (39-146%)	63 %	D02					01/19/09 16:36	JLG	9A13076	8270C
Surr: 2-Fluorobiphenyl (37-120%)	64 %	D02					01/19/09 16:36	JLG	9A13076	8270C
Surr: 2-Fluorophenol (18-120%)	50 %	D02					01/19/09 16:36	JLG	9A13076	8270C
Surr: Nitrobenzene-d5 (34-132%)	60 %	D02					01/19/09 16:36	JLG	9A13076	8270C
Surr: Phenol-d5 (11-120%)	58 %	D02					01/19/09 16:36	JLG	9A13076	8270C
Surr: p-Terphenyl-d14 (58-147%)	57 %	Z6, D02					01/19/09 16:36	JLG	9A13076	8270C
Total Metals by SW 846 Series Methods										
Aluminum	5080		12.5	0.0295	mg/kg dry	1.00	01/15/09 03:47	AH	9A14015	6010B
Antimony	11.3	J	18.7	0.00685	mg/kg dry	1.00	01/15/09 03:47	AH	9A14015	6010B
Arsenic	16.5		2.50	0.00462	mg/kg dry	1.00	01/15/09 03:47	AH	9A14015	6010B
Barium	52.9		0.625	0.000350	mg/kg dry	1.00	01/15/09 03:47	AH	9A14015	6010B
Beryllium	1.11		0.250	0.000412	mg/kg dry	1.00	01/15/09 03:47	AH	9A14015	6010B
Cadmium	0.0850	J	0.250	0.000412	mg/kg dry	1.00	01/15/09 03:47	AH	9A14015	6010B
Calcium	23100		62.5	0.125	mg/kg dry	1.00	01/15/09 03:47	AH	9A14015	6010B
Chromium	8.78		0.625	0.00110	mg/kg dry	1.00	01/15/09 03:47	AH	9A14015	6010B
Cobalt	2.93		0.625	0.00132	mg/kg dry	1.00	01/15/09 03:47	AH	9A14015	6010B
Copper	24.3		1.25	0.00157	mg/kg dry	1.00	01/15/09 03:47	AH	9A14015	6010B
Iron	11500		12.5	0.0241	mg/kg dry	1.00	01/15/09 03:47	AH	9A14015	6010B
Lead	82.9		1.25	0.00362	mg/kg dry	1.00	01/15/09 03:47	AH	9A14015	6010B
Magnesium	10500		25.0	0.0529	mg/kg dry	1.00	01/15/09 03:47	AH	9A14015	6010B
Manganese	206		0.250	0.000300	mg/kg dry	1.00	01/15/09 03:47	AH	9A14015	6010B
Nickel	15.2		0.625	0.00129	mg/kg dry	1.00	01/15/09 03:47	AH	9A14015	6010B
Potassium	1040		37.5	0.0625	mg/kg dry	1.00	01/15/09 03:47	AH	9A14015	6010B
Selenium	0.216	J	5.00	0.00762	mg/kg dry	1.00	01/15/09 03:47	AH	9A14015	6010B
Silver	0.0937	J	0.625	0.00159	mg/kg dry	1.00	01/15/09 03:47	AH	9A14015	6010B
Sodium	536		175	0.424	mg/kg dry	1.00	01/15/09 03:47	AH	9A14015	6010B
Thallium	0.514	J	7.50	0.00735	mg/kg dry	1.00	01/15/09 03:47	AH	9A14015	6010B
Vanadium	13.0		0.625	0.00122	mg/kg dry	1.00	01/15/09 03:47	AH	9A14015	6010B
Zinc	45.5		2.50	0.00450	mg/kg dry	1.00	01/15/09 03:47	AH	9A14015	6010B
Mercury	0.0766		0.0231	0.00935	mg/kg dry	1.00	01/15/09 15:57	MM	9A15039	7471A
Volatile Organic Compounds by EPA 8260B										
1,1,1-Trichloroethane	ND		6.3	0.45	ug/kg dry	1.00	01/13/09 03:52	CDC	9A12047	8260B
1,1,2,2-Tetrachloroethane	ND		6.3	1.0	ug/kg dry	1.00	01/13/09 03:52	CDC	9A12047	8260B
1,1,2-Trichloroethane	ND		6.3	0.31	ug/kg dry	1.00	01/13/09 03:52	CDC	9A12047	8260B
1,1,2-Trichlorotrifluoroethane	ND		6.3	0.66	ug/kg dry	1.00	01/13/09 03:52	CDC	9A12047	8260B
1,1-Dichloroethane	ND		6.3	0.31	ug/kg dry	1.00	01/13/09 03:52	CDC	9A12047	8260B
1,1-Dichloroethene	ND		6.3	0.77	ug/kg dry	1.00	01/13/09 03:52	CDC	9A12047	8260B
1,2,4-Trichlorobenzene	ND		6.3	0.38	ug/kg dry	1.00	01/13/09 03:52	CDC	9A12047	8260B
1,2-Dibromo-3-chloropropane	ND		6.3	1.2	ug/kg dry	1.00	01/13/09 03:52	CDC	9A12047	8260B
1,2-Dibromoethane (EDB)	ND		6.3	0.24	ug/kg dry	1.00	01/13/09 03:52	CDC	9A12047	8260B
1,2-Dichlorobenzene	ND		6.3	0.94	ug/kg dry	1.00	01/13/09 03:52	CDC	9A12047	8260B
1,2-Dichloroethane	ND		6.3	0.31	ug/kg dry	1.00	01/13/09 03:52	CDC	9A12047	8260B
1,2-Dichloropropane	ND		6.3	0.32	ug/kg dry	1.00	01/13/09 03:52	CDC	9A12047	8260B
1,3-Dichlorobenzene	ND		6.3	0.88	ug/kg dry	1.00	01/13/09 03:52	CDC	9A12047	8260B
1,4-Dichlorobenzene	ND		6.3	0.88	ug/kg dry	1.00	01/13/09 03:52	CDC	9A12047	8260B
2-Butanone (MEK)	ND		31	8.5	ug/kg dry	1.00	01/13/09 03:52	CDC	9A12047	8260B
2-Hexanone	ND		31	2.2	ug/kg dry	1.00	01/13/09 03:52	CDC	9A12047	8260B
4-Methyl-2-pentanone (MIBK)	ND		31	2.1	ug/kg dry	1.00	01/13/09 03:52	CDC	9A12047	8260B
Acetone	14	J	31	2.5	ug/kg dry	1.00	01/13/09 03:52	CDC	9A12047	8260B
Benzene	ND		6.3	0.31	ug/kg dry	1.00	01/13/09 03:52	CDC	9A12047	8260B
Bromodichloromethane	ND		6.3	0.32	ug/kg dry	1.00	01/13/09 03:52	CDC	9A12047	8260B

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Work Order: RSA0235
Project: Watts Engineers Artpark Phase II
Project Number: 48000480

Received: 01/08/09
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Analytical Report

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: RSA0235-03 (B-5 - Solid) - cont.						Sampled: 01/07/09 09:00		Recvd: 01/08/09 12:20		
<u>Volatile Organic Compounds by EPA 8260B - cont.</u>										
Bromoform	ND		6.3	0.58	ug/kg dry	1.00	01/13/09 03:52	CDC	9A12047	8260B
Bromomethane	ND		6.3	0.57	ug/kg dry	1.00	01/13/09 03:52	CDC	9A12047	8260B
Carbon disulfide	4.5	J	6.3	0.54	ug/kg dry	1.00	01/13/09 03:52	CDC	9A12047	8260B
Carbon Tetrachloride	ND		6.3	0.23	ug/kg dry	1.00	01/13/09 03:52	CDC	9A12047	8260B
Chlorobenzene	ND		6.3	0.27	ug/kg dry	1.00	01/13/09 03:52	CDC	9A12047	8260B
Chlorodibromomethane	ND		6.3	0.35	ug/kg dry	1.00	01/13/09 03:52	CDC	9A12047	8260B
Chloroethane	ND		6.3	1.0	ug/kg dry	1.00	01/13/09 03:52	CDC	9A12047	8260B
Chloroform	7.5		6.3	0.39	ug/kg dry	1.00	01/13/09 03:52	CDC	9A12047	8260B
Chloromethane	ND		6.3	0.43	ug/kg dry	1.00	01/13/09 03:52	CDC	9A12047	8260B
cis-1,2-Dichloroethene	ND		6.3	0.31	ug/kg dry	1.00	01/13/09 03:52	CDC	9A12047	8260B
cis-1,3-Dichloropropene	ND		6.3	0.36	ug/kg dry	1.00	01/13/09 03:52	CDC	9A12047	8260B
Cyclohexane	ND		6.3	0.29	ug/kg dry	1.00	01/13/09 03:52	CDC	9A12047	8260B
Dichlorodifluoromethane	ND	L2	6.3	0.52	ug/kg dry	1.00	01/13/09 03:52	CDC	9A12047	8260B
Ethylbenzene	ND		6.3	0.43	ug/kg dry	1.00	01/13/09 03:52	CDC	9A12047	8260B
Isopropylbenzene	ND		6.3	0.41	ug/kg dry	1.00	01/13/09 03:52	CDC	9A12047	8260B
Methyl Acetate	ND		6.3	0.21	ug/kg dry	1.00	01/13/09 03:52	CDC	9A12047	8260B
Methyl tert-Butyl Ether	ND		6.3	0.19	ug/kg dry	1.00	01/13/09 03:52	CDC	9A12047	8260B
Methylcyclohexane	1.3	J	6.3	0.41	ug/kg dry	1.00	01/13/09 03:52	CDC	9A12047	8260B
Methylene Chloride	7.0		6.3	0.44	ug/kg dry	1.00	01/13/09 03:52	CDC	9A12047	8260B
Styrene	ND		6.3	0.31	ug/kg dry	1.00	01/13/09 03:52	CDC	9A12047	8260B
Tetrachloroethene	8.6		6.3	0.84	ug/kg dry	1.00	01/13/09 03:52	CDC	9A12047	8260B
Toluene	1.5	J	6.3	0.64	ug/kg dry	1.00	01/13/09 03:52	CDC	9A12047	8260B
trans-1,2-Dichloroethene	ND		6.3	0.65	ug/kg dry	1.00	01/13/09 03:52	CDC	9A12047	8260B
trans-1,3-Dichloropropene	ND		6.3	0.31	ug/kg dry	1.00	01/13/09 03:52	CDC	9A12047	8260B
Trichloroethene	ND		6.3	0.43	ug/kg dry	1.00	01/13/09 03:52	CDC	9A12047	8260B
Trichlorofluoromethane	ND		6.3	2.0	ug/kg dry	1.00	01/13/09 03:52	CDC	9A12047	8260B
Vinyl chloride	ND		13	0.26	ug/kg dry	1.00	01/13/09 03:52	CDC	9A12047	8260B
Xylenes, total	ND		3.8	1.2	ug/kg dry	1.00	01/13/09 03:52	CDC	9A12047	8260B
Surr: 1,2-Dichloroethane-d4 (61-136%)	98 %						01/13/09 03:52	CDC	9A12047	8260B
Surr: 4-Bromofluorobenzene (72-126%)	95 %						01/13/09 03:52	CDC	9A12047	8260B
Surr: Toluene-d8 (71-125%)	102 %						01/13/09 03:52	CDC	9A12047	8260B

Watts Engineers
3826 Main Street
Buffalo, NY 14226

Work Order: RSA0235
Project: Watts Engineers Artpark Phase II
Project Number: 48000480

Received: 01/08/09
Reported: 02/19/09 16:11

Analytical Report

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: RSA0235-04 (CULVERT - Solid)						Sampled: 01/07/09 10:45		Recvd: 01/08/09 12:20		
<u>General Chemistry Parameters</u>										
Percent Solids	73.3		0.0100	NA	%	1.00	01/14/09 00:00	JU	9A13003	Dry Weight
Cyanide	ND		1.31	1.14	mg/kg dry	1.00	01/15/09 10:20	jmm	9A14018	9012A
<u>Organochlorine Pesticides by EPA Method 8081A</u>										
4,4'-DDE	22.1		2.24	0.645	ug/kg dry	1.00	01/14/09 19:38	tch	9A11011	8081A
4,4'-DDT	7.51		2.24	0.510	ug/kg dry	1.00	01/14/09 19:38	tch	9A11011	8081A
Aldrin	1.48	J	2.24	1.41	ug/kg dry	1.00	01/14/09 19:38	tch	9A11011	8081A
alpha-BHC	ND		2.24	1.27	ug/kg dry	1.00	01/14/09 19:38	tch	9A11011	8081A
beta-BHC	ND		2.24	1.62	ug/kg dry	1.00	01/14/09 19:38	tch	9A11011	8081A
Chlordane	ND		22.4	9.15	ug/kg dry	1.00	01/14/09 19:38	tch	9A11011	8081A
delta-BHC	ND		2.24	0.537	ug/kg dry	1.00	01/14/09 19:38	tch	9A11011	8081A
Dieldrin	ND		2.24	0.537	ug/kg dry	1.00	01/14/09 19:38	tch	9A11011	8081A
Endosulfan I	ND		2.24	0.861	ug/kg dry	1.00	01/14/09 19:38	tch	9A11011	8081A
Endosulfan II	0.786	J	2.24	0.402	ug/kg dry	1.00	01/14/09 19:38	tch	9A11011	8081A
Endosulfan sulfate	ND		2.24	0.417	ug/kg dry	1.00	01/14/09 19:38	tch	9A11011	8081A
Endrin	1.99	J	2.24	0.724	ug/kg dry	1.00	01/14/09 19:38	tch	9A11011	8081A
Endrin aldehyde	7.66		2.24	0.912	ug/kg dry	1.00	01/14/09 19:38	tch	9A11011	8081A
Endrin ketone	ND		2.24	0.550	ug/kg dry	1.00	01/14/09 19:38	tch	9A11011	8081A
gamma-BHC (Lindane)	ND		2.24	1.23	ug/kg dry	1.00	01/14/09 19:38	tch	9A11011	8081A
Heptachlor	ND		2.24	1.11	ug/kg dry	1.00	01/14/09 19:38	tch	9A11011	8081A
Heptachlor epoxide	3.50		2.24	0.577	ug/kg dry	1.00	01/14/09 19:38	tch	9A11011	8081A
Methoxychlor	ND		2.24	0.597	ug/kg dry	1.00	01/14/09 19:38	tch	9A11011	8081A
Toxaphene	ND		22.4	13.0	ug/kg dry	1.00	01/14/09 19:38	tch	9A11011	8081A
Surr. Decachlorobiphenyl (42-146%)	398 %	Z5					01/14/09 19:38	tch	9A11011	8081A
Surr. Tetrachloro-m-xylene (37-136%)	96 %						01/14/09 19:38	tch	9A11011	8081A
<u>Polychlorinated Biphenyls by EPA Method 8082</u>										
Aroclor 1016 [2C]	ND		22.4	4.37	ug/kg dry	1.00	01/14/09 14:03	tch	9A13026	8082
Aroclor 1221 [2C]	ND		22.4	4.37	ug/kg dry	1.00	01/14/09 14:03	tch	9A13026	8082
Aroclor 1232 [2C]	ND		22.4	4.37	ug/kg dry	1.00	01/14/09 14:03	tch	9A13026	8082
Aroclor 1242 [2C]	ND		22.4	4.86	ug/kg dry	1.00	01/14/09 14:03	tch	9A13026	8082
Aroclor 1248 [2C]	ND		22.4	4.39	ug/kg dry	1.00	01/14/09 14:03	tch	9A13026	8082
Aroclor 1254 [2C]	260		22.4	4.72	ug/kg dry	1.00	01/14/09 14:03	tch	9A13026	8082
Aroclor 1260 [2C]	ND		22.4	4.72	ug/kg dry	1.00	01/14/09 14:03	tch	9A13026	8082
Surr. Decachlorobiphenyl [2C] (34-148%)	245 %	Z5					01/14/09 14:03	tch	9A13026	8082
Surr. Tetrachloro-m-xylene [2C] (35-134%)	109 %						01/14/09 14:03	tch	9A13026	8082
<u>Semivolatile Organics by GC/MS</u>										
2,4,5-Trichlorophenol	ND	D02	450	98	ug/kg dry	2.00	01/19/09 16:59	JLG	9A13076	8270C
2,4,6-Trichlorophenol	ND	D02	450	30	ug/kg dry	2.00	01/19/09 16:59	JLG	9A13076	8270C
2,4-Dichlorophenol	ND	D02	450	24	ug/kg dry	2.00	01/19/09 16:59	JLG	9A13076	8270C
2,4-Dimethylphenol	ND	D02	450	120	ug/kg dry	2.00	01/19/09 16:59	JLG	9A13076	8270C
2,4-Dinitrophenol	ND	D02	880	160	ug/kg dry	2.00	01/19/09 16:59	JLG	9A13076	8270C
2,4-Dinitrotoluene	ND	D02	450	70	ug/kg dry	2.00	01/19/09 16:59	JLG	9A13076	8270C
2,6-Dinitrotoluene	ND	D02	450	110	ug/kg dry	2.00	01/19/09 16:59	JLG	9A13076	8270C
2-Chloronaphthalene	ND	D02	450	30	ug/kg dry	2.00	01/19/09 16:59	JLG	9A13076	8270C
2-Chlorophenol	ND	D02	450	23	ug/kg dry	2.00	01/19/09 16:59	JLG	9A13076	8270C
2-Methylnaphthalene	ND	D02	450	5.5	ug/kg dry	2.00	01/19/09 16:59	JLG	9A13076	8270C
2-Methylphenol	ND	D02	450	14	ug/kg dry	2.00	01/19/09 16:59	JLG	9A13076	8270C
2-Nitroaniline	ND	D02	880	140	ug/kg dry	2.00	01/19/09 16:59	JLG	9A13076	8270C
2-Nitrophenol	ND	D02	450	21	ug/kg dry	2.00	01/19/09 16:59	JLG	9A13076	8270C
3,3'-Dichlorobenzidine	ND	D02	450	390	ug/kg dry	2.00	01/19/09 16:59	JLG	9A13076	8270C
3-Nitroaniline	ND	D02	880	100	ug/kg dry	2.00	01/19/09 16:59	JLG	9A13076	8270C

TestAmerica Buffalo

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Watts Engineers
13826 Main Street
Buffalo, NY 14226

Work Order: RSA0235
Project: Watts Engineers Artpark Phase II
Project Number: 48000480

Received: 01/08/09
Reported: 02/19/09 16:11

Analytical Report

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: RSA0235-04 (CULVERT - Solid) - cont.						Sampled: 01/07/09 10:45		Recvd: 01/08/09 12:20		
<u>Semivolatile Organics by GC/MS - cont.</u>										
4,6-Dinitro-2-methylphenol	ND	D02	880	160	ug/kg dry	2.00	01/19/09 16:59	JLG	9A13076	8270C
4-Bromophenyl phenyl ether	ND	D02	450	140	ug/kg dry	2.00	01/19/09 16:59	JLG	9A13076	8270C
4-Chloro-3-methylphenol	ND	D02	450	19	ug/kg dry	2.00	01/19/09 16:59	JLG	9A13076	8270C
4-Chloroaniline	ND	D02	450	130	ug/kg dry	2.00	01/19/09 16:59	JLG	9A13076	8270C
4-Chlorophenyl phenyl ether	ND	D02	450	9.6	ug/kg dry	2.00	01/19/09 16:59	JLG	9A13076	8270C
4-Methylphenol	ND	D02	450	25	ug/kg dry	2.00	01/19/09 16:59	JLG	9A13076	8270C
4-Nitroaniline	ND	D02	880	50	ug/kg dry	2.00	01/19/09 16:59	JLG	9A13076	8270C
4-Nitrophenol	ND	D02	880	110	ug/kg dry	2.00	01/19/09 16:59	JLG	9A13076	8270C
Acenaphthene	ND	D02	450	5.3	ug/kg dry	2.00	01/19/09 16:59	JLG	9A13076	8270C
Acenaphthylene	ND	D02	450	3.7	ug/kg dry	2.00	01/19/09 16:59	JLG	9A13076	8270C
Acetophenone	ND	D02	450	23	ug/kg dry	2.00	01/19/09 16:59	JLG	9A13076	8270C
Anthracene	ND	D02	450	12	ug/kg dry	2.00	01/19/09 16:59	JLG	9A13076	8270C
Atrazine	ND	D02	450	20	ug/kg dry	2.00	01/19/09 16:59	JLG	9A13076	8270C
Benzaldehyde	ND	D02	450	49	ug/kg dry	2.00	01/19/09 16:59	JLG	9A13076	8270C
Benzo[a]anthracene	85	J, D02	450	7.8	ug/kg dry	2.00	01/19/09 16:59	JLG	9A13076	8270C
Benzo[a]pyrene	76	J, D02	450	11	ug/kg dry	2.00	01/19/09 16:59	JLG	9A13076	8270C
Benzo[b]fluoranthene	99	J, D02	450	8.7	ug/kg dry	2.00	01/19/09 16:59	JLG	9A13076	8270C
Benzo[g,h,i]perylene	48	J, D02	450	5.4	ug/kg dry	2.00	01/19/09 16:59	JLG	9A13076	8270C
Benzo[k]fluoranthene	220	J, D02	450	5.0	ug/kg dry	2.00	01/19/09 16:59	JLG	9A13076	8270C
Biphenyl	ND	D02	450	28	ug/kg dry	2.00	01/19/09 16:59	JLG	9A13076	8270C
Bis(2-chloroethoxy)methane	ND	D02	450	25	ug/kg dry	2.00	01/19/09 16:59	JLG	9A13076	8270C
Bis(2-chloroethyl)ether	ND	D02	450	39	ug/kg dry	2.00	01/19/09 16:59	JLG	9A13076	8270C
Bis(2-chloroisopropyl) ether	ND	D02	450	47	ug/kg dry	2.00	01/19/09 16:59	JLG	9A13076	8270C
Bis(2-ethylhexyl) phthalate	ND	D02	450	150	ug/kg dry	2.00	01/19/09 16:59	JLG	9A13076	8270C
Butyl benzyl phthalate	ND	D02	450	120	ug/kg dry	2.00	01/19/09 16:59	JLG	9A13076	8270C
Caprolactam	ND	D02	450	190	ug/kg dry	2.00	01/19/09 16:59	JLG	9A13076	8270C
Carbazole	ND	D02	450	5.2	ug/kg dry	2.00	01/19/09 16:59	JLG	9A13076	8270C
Chrysene	81	J, D02	450	4.5	ug/kg dry	2.00	01/19/09 16:59	JLG	9A13076	8270C
Dibenz[a,h]anthracene	ND	D02	450	5.3	ug/kg dry	2.00	01/19/09 16:59	JLG	9A13076	8270C
Dibenzofuran	ND	D02	450	4.7	ug/kg dry	2.00	01/19/09 16:59	JLG	9A13076	8270C
Diethyl phthalate	ND	D02	450	14	ug/kg dry	2.00	01/19/09 16:59	JLG	9A13076	8270C
Dimethyl phthalate	ND	D02	450	12	ug/kg dry	2.00	01/19/09 16:59	JLG	9A13076	8270C
Di-n-butyl phthalate	ND	D02	450	160	ug/kg dry	2.00	01/19/09 16:59	JLG	9A13076	8270C
Di-n-octyl phthalate	ND	D02	450	11	ug/kg dry	2.00	01/19/09 16:59	JLG	9A13076	8270C
Fluoranthene	130	J, D02	450	6.5	ug/kg dry	2.00	01/19/09 16:59	JLG	9A13076	8270C
Fluorene	ND	D02	450	10	ug/kg dry	2.00	01/19/09 16:59	JLG	9A13076	8270C
Hexachlorobenzene	ND	D02	450	22	ug/kg dry	2.00	01/19/09 16:59	JLG	9A13076	8270C
Hexachlorobutadiene	ND	D02	450	23	ug/kg dry	2.00	01/19/09 16:59	JLG	9A13076	8270C
Hexachlorocyclopentadiene	ND	D02	450	140	ug/kg dry	2.00	01/19/09 16:59	JLG	9A13076	8270C
Hexachloroethane	ND	D02	450	35	ug/kg dry	2.00	01/19/09 16:59	JLG	9A13076	8270C
Indeno[1,2,3-cd]pyrene	41	J, D02	450	12	ug/kg dry	2.00	01/19/09 16:59	JLG	9A13076	8270C
Isophorone	ND	D02	450	23	ug/kg dry	2.00	01/19/09 16:59	JLG	9A13076	8270C
Naphthalene	ND	D02	450	7.5	ug/kg dry	2.00	01/19/09 16:59	JLG	9A13076	8270C
Nitrobenzene	ND	D02	450	20	ug/kg dry	2.00	01/19/09 16:59	JLG	9A13076	8270C
N-Nitrosodi-n-propylamine	ND	D02	450	36	ug/kg dry	2.00	01/19/09 16:59	JLG	9A13076	8270C
N-Nitrosodiphenylamine	ND	D02	450	25	ug/kg dry	2.00	01/19/09 16:59	JLG	9A13076	8270C
Pentachlorophenol	ND	D02	880	150	ug/kg dry	2.00	01/19/09 16:59	JLG	9A13076	8270C
Phenanthrene	71	J, D02	450	9.5	ug/kg dry	2.00	01/19/09 16:59	JLG	9A13076	8270C
Phenol	ND	D02	450	47	ug/kg dry	2.00	01/19/09 16:59	JLG	9A13076	8270C
Pyrene	100	J, D02	450	2.9	ug/kg dry	2.00	01/19/09 16:59	JLG	9A13076	8270C

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Work Order: RSA0235
Project: Watts Engineers Artpark Phase II
Project Number: 48000480

Received: 01/08/09
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Analytical Report

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: RSA0235-04 (CULVERT - Solid) - cont.						Sampled: 01/07/09 10:45		Recvd: 01/08/09 12:20		
<u>Semivolatile Organics by GC/MS - cont.</u>										
Surr: 2,4,6-Tribromophenol (39-146%)	72 %	D02					01/19/09 16:59	JLG	9A13076	8270C
Surr: 2-Fluorobiphenyl (37-120%)	71 %	D02					01/19/09 16:59	JLG	9A13076	8270C
Surr: 2-Fluorophenol (18-120%)	59 %	D02					01/19/09 16:59	JLG	9A13076	8270C
Surr: Nitrobenzene-d5 (34-132%)	69 %	D02					01/19/09 16:59	JLG	9A13076	8270C
Surr: Phenol-d5 (11-120%)	67 %	D02					01/19/09 16:59	JLG	9A13076	8270C
Surr: p-Terphenyl-d14 (58-147%)	60 %	D02					01/19/09 16:59	JLG	9A13076	8270C
<u>Total Metals by SW 846 Series Methods</u>										
Aluminum	9420		14.1	0.0333	mg/kg dry	1.00	01/15/09 03:52	AH	9A14015	6010B
Antimony	10.5	J	21.1	0.00772	mg/kg dry	1.00	01/15/09 03:52	AH	9A14015	6010B
Arsenic	7.14		2.82	0.00521	mg/kg dry	1.00	01/15/09 03:52	AH	9A14015	6010B
Barium	50.9		0.705	0.000395	mg/kg dry	1.00	01/15/09 03:52	AH	9A14015	6010B
Beryllium	0.562		0.282	0.000465	mg/kg dry	1.00	01/15/09 03:52	AH	9A14015	6010B
Cadmium	0.134	J	0.282	0.000465	mg/kg dry	1.00	01/15/09 03:52	AH	9A14015	6010B
Calcium	38700		70.5	0.141	mg/kg dry	1.00	01/15/09 03:52	AH	9A14015	6010B
Chromium	16.6		0.705	0.00124	mg/kg dry	1.00	01/15/09 03:52	AH	9A14015	6010B
Cobalt	9.46		0.705	0.00149	mg/kg dry	1.00	01/15/09 03:52	AH	9A14015	6010B
Copper	36.7		1.41	0.00178	mg/kg dry	1.00	01/15/09 03:52	AH	9A14015	6010B
Iron	16400		14.1	0.0272	mg/kg dry	1.00	01/15/09 03:52	AH	9A14015	6010B
Lead	55.7		1.41	0.00409	mg/kg dry	1.00	01/15/09 03:52	AH	9A14015	6010B
Magnesium	17500		28.2	0.0596	mg/kg dry	1.00	01/15/09 03:52	AH	9A14015	6010B
Manganese	574		0.282	0.000338	mg/kg dry	1.00	01/15/09 03:52	AH	9A14015	6010B
Nickel	20.9		0.705	0.00145	mg/kg dry	1.00	01/15/09 03:52	AH	9A14015	6010B
Potassium	1910		42.3	0.0705	mg/kg dry	1.00	01/15/09 03:52	AH	9A14015	6010B
Selenium	0.302	J	5.64	0.00860	mg/kg dry	1.00	01/15/09 03:52	AH	9A14015	6010B
Silver	0.140	J	0.705	0.00179	mg/kg dry	1.00	01/15/09 03:52	AH	9A14015	6010B
Sodium	104	J	197	0.478	mg/kg dry	1.00	01/15/09 03:52	AH	9A14015	6010B
Thallium	0.726	J	8.46	0.00829	mg/kg dry	1.00	01/15/09 03:52	AH	9A14015	6010B
Vanadium	16.5		0.705	0.00138	mg/kg dry	1.00	01/15/09 03:52	AH	9A14015	6010B
Zinc	107		2.82	0.00507	mg/kg dry	1.00	01/15/09 03:52	AH	9A14015	6010B
Mercury	0.193		0.0270	0.0109	mg/kg dry	1.00	01/15/09 15:59	MM	9A15039	7471A
<u>Volatile Organic Compounds by EPA 8260B</u>										
1,1,1-Trichloroethane	ND		6.6	0.48	ug/kg dry	1.00	01/13/09 04:17	CDC	9A12047	8260B
1,1,2,2-Tetrachloroethane	ND		6.6	1.1	ug/kg dry	1.00	01/13/09 04:17	CDC	9A12047	8260B
1,1,2-Trichloroethane	ND		6.6	0.33	ug/kg dry	1.00	01/13/09 04:17	CDC	9A12047	8260B
1,1,2-Trichlorotrifluoroethane	ND		6.6	0.70	ug/kg dry	1.00	01/13/09 04:17	CDC	9A12047	8260B
1,1-Dichloroethane	ND		6.6	0.32	ug/kg dry	1.00	01/13/09 04:17	CDC	9A12047	8260B
1,1-Dichloroethene	ND		6.6	0.80	ug/kg dry	1.00	01/13/09 04:17	CDC	9A12047	8260B
1,2,4-Trichlorobenzene	ND		6.6	0.40	ug/kg dry	1.00	01/13/09 04:17	CDC	9A12047	8260B
1,2-Dibromo-3-chloropropane	ND		6.6	1.3	ug/kg dry	1.00	01/13/09 04:17	CDC	9A12047	8260B
1,2-Dibromoethane (EDB)	ND		6.6	0.25	ug/kg dry	1.00	01/13/09 04:17	CDC	9A12047	8260B
1,2-Dichlorobenzene	ND		6.6	0.99	ug/kg dry	1.00	01/13/09 04:17	CDC	9A12047	8260B
1,2-Dichloroethane	ND		6.6	0.33	ug/kg dry	1.00	01/13/09 04:17	CDC	9A12047	8260B
1,2-Dichloropropane	ND		6.6	0.34	ug/kg dry	1.00	01/13/09 04:17	CDC	9A12047	8260B
1,3-Dichlorobenzene	ND		6.6	0.93	ug/kg dry	1.00	01/13/09 04:17	CDC	9A12047	8260B
1,4-Dichlorobenzene	ND		6.6	0.92	ug/kg dry	1.00	01/13/09 04:17	CDC	9A12047	8260B
2-Butanone (MEK)	ND		33	8.9	ug/kg dry	1.00	01/13/09 04:17	CDC	9A12047	8260B
2-Hexanone	ND		33	2.3	ug/kg dry	1.00	01/13/09 04:17	CDC	9A12047	8260B
4-Methyl-2-pentanone (MIBK)	ND		33	2.2	ug/kg dry	1.00	01/13/09 04:17	CDC	9A12047	8260B
Acetone	ND		33	2.6	ug/kg dry	1.00	01/13/09 04:17	CDC	9A12047	8260B
Benzene	ND		6.6	0.32	ug/kg dry	1.00	01/13/09 04:17	CDC	9A12047	8260B
Bromodichloromethane	ND		6.6	0.34	ug/kg dry	1.00	01/13/09 04:17	CDC	9A12047	8260B

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Watts Engineers
3826 Main Street
Buffalo, NY 14226

Work Order: RSA0235
Project: Watts Engineers Artpark Phase II
Project Number: 48000480

Received: 01/08/09
Reported: 02/19/09 16:11

Analytical Report

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: RSA0235-04 (CULVERT - Solid) - cont.						Sampled: 01/07/09 10:45		Recvd: 01/08/09 12:20		
<u>Volatile Organic Compounds by EPA 8260B - cont.</u>										
Bromoform	ND		6.6	0.61	ug/kg dry	1.00	01/13/09 04:17	CDC	9A12047	8260B
Bromomethane	ND		6.6	0.60	ug/kg dry	1.00	01/13/09 04:17	CDC	9A12047	8260B
Carbon disulfide	ND		6.6	0.56	ug/kg dry	1.00	01/13/09 04:17	CDC	9A12047	8260B
Carbon Tetrachloride	ND		6.6	0.24	ug/kg dry	1.00	01/13/09 04:17	CDC	9A12047	8260B
Chlorobenzene	ND		6.6	0.29	ug/kg dry	1.00	01/13/09 04:17	CDC	9A12047	8260B
Chlorodibromomethane	ND		6.6	0.36	ug/kg dry	1.00	01/13/09 04:17	CDC	9A12047	8260B
Chloroethane	ND		6.6	1.1	ug/kg dry	1.00	01/13/09 04:17	CDC	9A12047	8260B
Chloroform	ND		6.6	0.41	ug/kg dry	1.00	01/13/09 04:17	CDC	9A12047	8260B
Chloromethane	ND		6.6	0.45	ug/kg dry	1.00	01/13/09 04:17	CDC	9A12047	8260B
cis-1,2-Dichloroethene	ND		6.6	0.32	ug/kg dry	1.00	01/13/09 04:17	CDC	9A12047	8260B
cis-1,3-Dichloropropene	ND		6.6	0.37	ug/kg dry	1.00	01/13/09 04:17	CDC	9A12047	8260B
Cyclohexane	ND		6.6	0.30	ug/kg dry	1.00	01/13/09 04:17	CDC	9A12047	8260B
Dichlorodifluoromethane	ND	L2	6.6	0.54	ug/kg dry	1.00	01/13/09 04:17	CDC	9A12047	8260B
Ethylbenzene	ND		6.6	0.45	ug/kg dry	1.00	01/13/09 04:17	CDC	9A12047	8260B
Isopropylbenzene	ND		6.6	0.43	ug/kg dry	1.00	01/13/09 04:17	CDC	9A12047	8260B
Methyl Acetate	ND		6.6	0.22	ug/kg dry	1.00	01/13/09 04:17	CDC	9A12047	8260B
Methyl tert-Butyl Ether	ND		6.6	0.20	ug/kg dry	1.00	01/13/09 04:17	CDC	9A12047	8260B
Methylcyclohexane	ND		6.6	0.42	ug/kg dry	1.00	01/13/09 04:17	CDC	9A12047	8260B
Methylene Chloride	3.7	J	6.6	0.46	ug/kg dry	1.00	01/13/09 04:17	CDC	9A12047	8260B
Styrene	ND		6.6	0.33	ug/kg dry	1.00	01/13/09 04:17	CDC	9A12047	8260B
Tetrachloroethene	ND		6.6	0.88	ug/kg dry	1.00	01/13/09 04:17	CDC	9A12047	8260B
Toluene	ND		6.6	0.67	ug/kg dry	1.00	01/13/09 04:17	CDC	9A12047	8260B
trans-1,2-Dichloroethene	ND		6.6	0.68	ug/kg dry	1.00	01/13/09 04:17	CDC	9A12047	8260B
trans-1,3-Dichloropropene	ND		6.6	0.32	ug/kg dry	1.00	01/13/09 04:17	CDC	9A12047	8260B
Trichloroethene	ND		6.6	0.45	ug/kg dry	1.00	01/13/09 04:17	CDC	9A12047	8260B
Trichlorofluoromethane	ND		6.6	2.1	ug/kg dry	1.00	01/13/09 04:17	CDC	9A12047	8260B
Vinyl chloride	ND		13	0.27	ug/kg dry	1.00	01/13/09 04:17	CDC	9A12047	8260B
Xylenes, total	ND		3.9	1.2	ug/kg dry	1.00	01/13/09 04:17	CDC	9A12047	8260B
Surr: 1,2-Dichloroethane-d4 (61-136%)	99 %						01/13/09 04:17	CDC	9A12047	8260B
Surr: 4-Bromofluorobenzene (72-126%)	96 %						01/13/09 04:17	CDC	9A12047	8260B
Surr: Toluene-d8 (71-125%)	102 %						01/13/09 04:17	CDC	9A12047	8260B

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Analytical Report

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: RSA0235-05 (B-8 - Solid)			Sampled: 01/08/09 09:50				Recvd: 01/08/09 12:20			
<u>General Chemistry Parameters</u>										
Percent Solids	86.5		0.0100	NA	%	1.00	01/14/09 00:00	JU	9A13003	Dry Weight
Cyanide	ND		0.744	0.647	mg/kg dry	1.00	01/15/09 08:26	jmm	9A15046	9012A
<u>Organochlorine Pesticides by EPA Method 8081A</u>										
4,4'-DDE	0.925	J	1.90	0.547	ug/kg dry	1.00	01/14/09 20:14	tch	9A11011	8081A
4,4'-DDT	ND		1.90	0.432	ug/kg dry	1.00	01/14/09 20:14	tch	9A11011	8081A
Aldrin	ND		1.90	1.20	ug/kg dry	1.00	01/14/09 20:14	tch	9A11011	8081A
alpha-BHC	ND		1.90	1.08	ug/kg dry	1.00	01/14/09 20:14	tch	9A11011	8081A
beta-BHC	ND		1.90	1.37	ug/kg dry	1.00	01/14/09 20:14	tch	9A11011	8081A
Chlordane	ND		19.0	7.76	ug/kg dry	1.00	01/14/09 20:14	tch	9A11011	8081A
delta-BHC	0.771	J	1.90	0.455	ug/kg dry	1.00	01/14/09 20:14	tch	9A11011	8081A
Dieldrin	ND		1.90	0.455	ug/kg dry	1.00	01/14/09 20:14	tch	9A11011	8081A
Endosulfan I	ND		1.90	0.730	ug/kg dry	1.00	01/14/09 20:14	tch	9A11011	8081A
Endosulfan II	ND		1.90	0.341	ug/kg dry	1.00	01/14/09 20:14	tch	9A11011	8081A
Endosulfan sulfate	ND		1.90	0.354	ug/kg dry	1.00	01/14/09 20:14	tch	9A11011	8081A
Endrin	ND		1.90	0.614	ug/kg dry	1.00	01/14/09 20:14	tch	9A11011	8081A
Endrin aldehyde	ND		1.90	0.774	ug/kg dry	1.00	01/14/09 20:14	tch	9A11011	8081A
Endrin ketone	ND		1.90	0.466	ug/kg dry	1.00	01/14/09 20:14	tch	9A11011	8081A
gamma-BHC (Lindane)	ND		1.90	1.05	ug/kg dry	1.00	01/14/09 20:14	tch	9A11011	8081A
Heptachlor	ND		1.90	0.944	ug/kg dry	1.00	01/14/09 20:14	tch	9A11011	8081A
Heptachlor epoxide	ND		1.90	0.489	ug/kg dry	1.00	01/14/09 20:14	tch	9A11011	8081A
Methoxychlor	ND		1.90	0.506	ug/kg dry	1.00	01/14/09 20:14	tch	9A11011	8081A
Toxaphene	ND		19.0	11.0	ug/kg dry	1.00	01/14/09 20:14	tch	9A11011	8081A
Surr: Decachlorobiphenyl (42-146%)	114 %						01/14/09 20:14	tch	9A11011	8081A
Surr: Tetrachloro-m-xylene (37-136%)	86 %						01/14/09 20:14	tch	9A11011	8081A
<u>Polychlorinated Biphenyls by EPA Method 8082</u>										
Aroclor 1016 [2C]	ND		19.0	3.71	ug/kg dry	1.00	01/14/09 14:18	tch	9A13026	8082
Aroclor 1221 [2C]	ND		19.0	3.71	ug/kg dry	1.00	01/14/09 14:18	tch	9A13026	8082
Aroclor 1232 [2C]	ND		19.0	3.71	ug/kg dry	1.00	01/14/09 14:18	tch	9A13026	8082
Aroclor 1242 [2C]	ND		19.0	4.12	ug/kg dry	1.00	01/14/09 14:18	tch	9A13026	8082
Aroclor 1248 [2C]	ND		19.0	3.72	ug/kg dry	1.00	01/14/09 14:18	tch	9A13026	8082
Aroclor 1254 [2C]	ND		19.0	4.00	ug/kg dry	1.00	01/14/09 14:18	tch	9A13026	8082
Aroclor 1260 [2C]	ND		19.0	4.00	ug/kg dry	1.00	01/14/09 14:18	tch	9A13026	8082
Surr: Decachlorobiphenyl [2C] (34-148%)	75 %						01/14/09 14:18	tch	9A13026	8082
Surr: Tetrachloro-m-xylene [2C] (35-134%)	83 %						01/14/09 14:18	tch	9A13026	8082
<u>Semivolatile Organics by GC/MS</u>										
2,4,5-Trichlorophenol	ND	D02	190	41	ug/kg dry	1.00	01/19/09 17:22	JLG	9A13076	8270C
2,4,6-Trichlorophenol	ND	D02	190	13	ug/kg dry	1.00	01/19/09 17:22	JLG	9A13076	8270C
2,4-Dichlorophenol	ND	D02	190	9.9	ug/kg dry	1.00	01/19/09 17:22	JLG	9A13076	8270C
2,4-Dimethylphenol	ND	D02	190	51	ug/kg dry	1.00	01/19/09 17:22	JLG	9A13076	8270C
2,4-Dinitrophenol	ND	D02	370	66	ug/kg dry	1.00	01/19/09 17:22	JLG	9A13076	8270C
2,4-Dinitrotoluene	ND	D02	190	29	ug/kg dry	1.00	01/19/09 17:22	JLG	9A13076	8270C
2,6-Dinitrotoluene	ND	D02	190	46	ug/kg dry	1.00	01/19/09 17:22	JLG	9A13076	8270C
2-Chloronaphthalene	ND	D02	190	13	ug/kg dry	1.00	01/19/09 17:22	JLG	9A13076	8270C
2-Chlorophenol	ND	D02	190	9.7	ug/kg dry	1.00	01/19/09 17:22	JLG	9A13076	8270C
2-Methylnaphthalene	ND	D02	190	2.3	ug/kg dry	1.00	01/19/09 17:22	JLG	9A13076	8270C
2-Methylphenol	ND	D02	190	5.8	ug/kg dry	1.00	01/19/09 17:22	JLG	9A13076	8270C
2-Nitroaniline	ND	D02	370	61	ug/kg dry	1.00	01/19/09 17:22	JLG	9A13076	8270C
2-Nitrophenol	ND	D02	190	8.7	ug/kg dry	1.00	01/19/09 17:22	JLG	9A13076	8270C
1,3'-Dichlorobenzidine	ND	D02	190	170	ug/kg dry	1.00	01/19/09 17:22	JLG	9A13076	8270C
3-Nitroaniline	ND	D02	370	44	ug/kg dry	1.00	01/19/09 17:22	JLG	9A13076	8270C

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Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: RSA0235-05 (B-8 - Solid) - cont.						Sampled: 01/08/09 09:50		Recvd: 01/08/09 12:20		
<u>Semivolatile Organics by GC/MS - cont.</u>										
4,6-Dinitro-2-methylphenol	ND	D02	370	65	ug/kg dry	1.00	01/19/09 17:22	JLG	9A13076	8270C
4-Bromophenyl phenyl ether	ND	D02	190	60	ug/kg dry	1.00	01/19/09 17:22	JLG	9A13076	8270C
4-Chloro-3-methylphenol	ND	D02	190	7.8	ug/kg dry	1.00	01/19/09 17:22	JLG	9A13076	8270C
4-Chloroaniline	ND	D02	190	56	ug/kg dry	1.00	01/19/09 17:22	JLG	9A13076	8270C
4-Chlorophenyl phenyl ether	ND	D02	190	4.0	ug/kg dry	1.00	01/19/09 17:22	JLG	9A13076	8270C
4-Methylphenol	ND	D02	190	11	ug/kg dry	1.00	01/19/09 17:22	JLG	9A13076	8270C
4-Nitroaniline	ND	D02	370	21	ug/kg dry	1.00	01/19/09 17:22	JLG	9A13076	8270C
4-Nitrophenol	ND	D02	370	46	ug/kg dry	1.00	01/19/09 17:22	JLG	9A13076	8270C
Acenaphthene	ND	D02	190	2.2	ug/kg dry	1.00	01/19/09 17:22	JLG	9A13076	8270C
Acenaphthylene	ND	D02	190	1.6	ug/kg dry	1.00	01/19/09 17:22	JLG	9A13076	8270C
Acetophenone	ND	D02	190	9.7	ug/kg dry	1.00	01/19/09 17:22	JLG	9A13076	8270C
Anthracene	ND	D02	190	4.9	ug/kg dry	1.00	01/19/09 17:22	JLG	9A13076	8270C
Atrazine	ND	D02	190	8.4	ug/kg dry	1.00	01/19/09 17:22	JLG	9A13076	8270C
Benzaldehyde	ND	D02	190	21	ug/kg dry	1.00	01/19/09 17:22	JLG	9A13076	8270C
Benzo[a]anthracene	10	J, D02	190	3.3	ug/kg dry	1.00	01/19/09 17:22	JLG	9A13076	8270C
Benzo[a]pyrene	ND	D02	190	4.6	ug/kg dry	1.00	01/19/09 17:22	JLG	9A13076	8270C
Benzo[b]fluoranthene	ND	D02	190	3.7	ug/kg dry	1.00	01/19/09 17:22	JLG	9A13076	8270C
Benzo[g,h,i]perylene	ND	D02	190	2.3	ug/kg dry	1.00	01/19/09 17:22	JLG	9A13076	8270C
Benzo[k]fluoranthene	ND	D02	190	2.1	ug/kg dry	1.00	01/19/09 17:22	JLG	9A13076	8270C
Biphenyl	ND	D02	190	12	ug/kg dry	1.00	01/19/09 17:22	JLG	9A13076	8270C
Bis(2-chloroethoxy)methane	ND	D02	190	10	ug/kg dry	1.00	01/19/09 17:22	JLG	9A13076	8270C
Bis(2-chloroethyl)ether	ND	D02	190	16	ug/kg dry	1.00	01/19/09 17:22	JLG	9A13076	8270C
Bis(2-chloroisopropyl) ether	ND	D02	190	20	ug/kg dry	1.00	01/19/09 17:22	JLG	9A13076	8270C
Bis(2-ethylhexyl) phthalate	590	D02	190	61	ug/kg dry	1.00	01/19/09 17:22	JLG	9A13076	8270C
Butyl benzyl phthalate	ND	D02	190	51	ug/kg dry	1.00	01/19/09 17:22	JLG	9A13076	8270C
Caprolactam	ND	D02	190	82	ug/kg dry	1.00	01/19/09 17:22	JLG	9A13076	8270C
Carbazole	ND	D02	190	2.2	ug/kg dry	1.00	01/19/09 17:22	JLG	9A13076	8270C
Chrysene	ND	D02	190	1.9	ug/kg dry	1.00	01/19/09 17:22	JLG	9A13076	8270C
Dibenz[a,h]anthracene	ND	D02	190	2.2	ug/kg dry	1.00	01/19/09 17:22	JLG	9A13076	8270C
Dibenzofuran	ND	D02	190	2.0	ug/kg dry	1.00	01/19/09 17:22	JLG	9A13076	8270C
Diethyl phthalate	ND	D02	190	5.7	ug/kg dry	1.00	01/19/09 17:22	JLG	9A13076	8270C
Dimethyl phthalate	ND	D02	190	4.9	ug/kg dry	1.00	01/19/09 17:22	JLG	9A13076	8270C
Di-n-butyl phthalate	ND	D02	190	66	ug/kg dry	1.00	01/19/09 17:22	JLG	9A13076	8270C
Di-n-octyl phthalate	ND	D02	190	4.4	ug/kg dry	1.00	01/19/09 17:22	JLG	9A13076	8270C
Fluoranthene	ND	D02	190	2.7	ug/kg dry	1.00	01/19/09 17:22	JLG	9A13076	8270C
Fluorene	ND	D02	190	4.4	ug/kg dry	1.00	01/19/09 17:22	JLG	9A13076	8270C
Hexachlorobenzene	ND	D02	190	9.4	ug/kg dry	1.00	01/19/09 17:22	JLG	9A13076	8270C
Hexachlorobutadiene	ND	D02	190	9.7	ug/kg dry	1.00	01/19/09 17:22	JLG	9A13076	8270C
Hexachlorocyclopentadiene	ND	D02	190	5.7	ug/kg dry	1.00	01/19/09 17:22	JLG	9A13076	8270C
Hexachloroethane	ND	D02	190	15	ug/kg dry	1.00	01/19/09 17:22	JLG	9A13076	8270C
Indeno[1,2,3-cd]pyrene	ND	D02	190	5.2	ug/kg dry	1.00	01/19/09 17:22	JLG	9A13076	8270C
Isophorone	ND	D02	190	9.5	ug/kg dry	1.00	01/19/09 17:22	JLG	9A13076	8270C
Naphthalene	ND	D02	190	3.2	ug/kg dry	1.00	01/19/09 17:22	JLG	9A13076	8270C
Nitrobenzene	ND	D02	190	8.4	ug/kg dry	1.00	01/19/09 17:22	JLG	9A13076	8270C
N-Nitrosodi-n-propylamine	ND	D02	190	15	ug/kg dry	1.00	01/19/09 17:22	JLG	9A13076	8270C
N-Nitrosodiphenylamine	ND	D02	190	10	ug/kg dry	1.00	01/19/09 17:22	JLG	9A13076	8270C
Pentachlorophenol	ND	D02	370	65	ug/kg dry	1.00	01/19/09 17:22	JLG	9A13076	8270C
Phenanthrene	8.2	J, D02	190	4.0	ug/kg dry	1.00	01/19/09 17:22	JLG	9A13076	8270C
Phenol	ND	D02	190	20	ug/kg dry	1.00	01/19/09 17:22	JLG	9A13076	8270C
Pyrene	ND	D02	190	1.2	ug/kg dry	1.00	01/19/09 17:22	JLG	9A13076	8270C

TestAmerica Buffalo

10 Hazelwood Drive Amherst, NY 14228 tel 716-691-2600 fax 716-691-7991

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Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: RSA0235-05 (B-8 - Solid) - cont.						Sampled: 01/08/09 09:50		Recvd: 01/08/09 12:20		
Semivolatile Organics by GC/MS - cont.										
Surr: 2,4,6-Tribromophenol (39-146%)	46 %	D02					01/19/09 17:22	JLG	9A13076	8270C
Surr: 2-Fluorobiphenyl (37-120%)	42 %	D02					01/19/09 17:22	JLG	9A13076	8270C
Surr: 2-Fluorophenol (18-120%)	34 %	D02					01/19/09 17:22	JLG	9A13076	8270C
Surr: Nitrobenzene-d5 (34-132%)	42 %	D02					01/19/09 17:22	JLG	9A13076	8270C
Surr: Phenol-d5 (11-120%)	38 %	D02					01/19/09 17:22	JLG	9A13076	8270C
Surr: p-Terphenyl-d14 (58-147%)	41 %	Z6, D02					01/19/09 17:22	JLG	9A13076	8270C
Total Metals by SW 846 Series Methods										
Aluminium	5580		11.1	0.0262	mg/kg dry	1.00	01/15/09 03:57	AH	9A14015	6010B
Antimony	ND		16.6	0.00608	mg/kg dry	1.00	01/15/09 03:57	AH	9A14015	6010B
Arsenic	7.13		2.22	0.00410	mg/kg dry	1.00	01/15/09 03:57	AH	9A14015	6010B
Barium	14.9		0.554	0.000310	mg/kg dry	1.00	01/15/09 03:57	AH	9A14015	6010B
Beryllium	0.459		0.222	0.000366	mg/kg dry	1.00	01/15/09 03:57	AH	9A14015	6010B
Cadmium	0.00222	J	0.222	0.000366	mg/kg dry	1.00	01/15/09 03:57	AH	9A14015	6010B
Calcium	116000	D08	277	0.554	mg/kg dry	5.00	01/15/09 17:53	AH	9A14015	6010B
Chromium	7.70		0.554	0.000976	mg/kg dry	1.00	01/15/09 03:57	AH	9A14015	6010B
Cobalt	6.40		0.554	0.00118	mg/kg dry	1.00	01/15/09 03:57	AH	9A14015	6010B
Copper	15.5		1.11	0.00140	mg/kg dry	1.00	01/15/09 03:57	AH	9A14015	6010B
Iron	11100		11.1	0.0214	mg/kg dry	1.00	01/15/09 03:57	AH	9A14015	6010B
Lead	19.7		1.11	0.00321	mg/kg dry	1.00	01/15/09 03:57	AH	9A14015	6010B
Magnesium	31400		22.2	0.0469	mg/kg dry	1.00	01/15/09 03:57	AH	9A14015	6010B
Manganese	515		0.222	0.000266	mg/kg dry	1.00	01/15/09 03:57	AH	9A14015	6010B
Nickel	12.3		0.554	0.00114	mg/kg dry	1.00	01/15/09 03:57	AH	9A14015	6010B
Potassium	2420		33.3	0.0554	mg/kg dry	1.00	01/15/09 03:57	AH	9A14015	6010B
Selenium	ND		4.43	0.00676	mg/kg dry	1.00	01/15/09 03:57	AH	9A14015	6010B
Silver	0.120	J	0.554	0.00141	mg/kg dry	1.00	01/15/09 03:57	AH	9A14015	6010B
Sodium	143	J	155	0.376	mg/kg dry	1.00	01/15/09 03:57	AH	9A14015	6010B
Thallium	ND		6.65	0.00652	mg/kg dry	1.00	01/15/09 03:57	AH	9A14015	6010B
Vanadium	8.46		0.554	0.00109	mg/kg dry	1.00	01/15/09 03:57	AH	9A14015	6010B
Zinc	69.8		2.22	0.00399	mg/kg dry	1.00	01/15/09 03:57	AH	9A14015	6010B
Mercury	ND		0.0220	0.00890	mg/kg dry	1.00	01/15/09 16:00	MM	9A15039	7471A
Volatile Organic Compounds by EPA 8260B										
1,1,1-Trichloroethane	ND		5.4	0.39	ug/kg dry	1.00	01/13/09 04:43	CDC	9A12047	8260B
1,1,2,2-Tetrachloroethane	ND		5.4	0.88	ug/kg dry	1.00	01/13/09 04:43	CDC	9A12047	8260B
1,1,2-Trichloroethane	ND		5.4	0.27	ug/kg dry	1.00	01/13/09 04:43	CDC	9A12047	8260B
1,1,2-Trichlorotrifluoroethane	ND		5.4	0.58	ug/kg dry	1.00	01/13/09 04:43	CDC	9A12047	8260B
1,1-Dichloroethane	ND		5.4	0.27	ug/kg dry	1.00	01/13/09 04:43	CDC	9A12047	8260B
1,1-Dichloroethene	ND		5.4	0.66	ug/kg dry	1.00	01/13/09 04:43	CDC	9A12047	8260B
1,2,4-Trichlorobenzene	ND		5.4	0.33	ug/kg dry	1.00	01/13/09 04:43	CDC	9A12047	8260B
1,2-Dibromo-3-chloropropane	ND		5.4	1.1	ug/kg dry	1.00	01/13/09 04:43	CDC	9A12047	8260B
1,2-Dibromoethane (EDB)	ND		5.4	0.21	ug/kg dry	1.00	01/13/09 04:43	CDC	9A12047	8260B
1,2-Dichlorobenzene	ND		5.4	0.82	ug/kg dry	1.00	01/13/09 04:43	CDC	9A12047	8260B
1,2-Dichloroethane	ND		5.4	0.27	ug/kg dry	1.00	01/13/09 04:43	CDC	9A12047	8260B
1,2-Dichloropropane	ND		5.4	0.28	ug/kg dry	1.00	01/13/09 04:43	CDC	9A12047	8260B
1,3-Dichlorobenzene	ND		5.4	0.77	ug/kg dry	1.00	01/13/09 04:43	CDC	9A12047	8260B
1,4-Dichlorobenzene	ND		5.4	0.76	ug/kg dry	1.00	01/13/09 04:43	CDC	9A12047	8260B
2-Butanone (MEK)	ND		27	7.4	ug/kg dry	1.00	01/13/09 04:43	CDC	9A12047	8260B
2-Hexanone	ND		27	1.9	ug/kg dry	1.00	01/13/09 04:43	CDC	9A12047	8260B
4-Methyl-2-pentanone (MIBK)	ND		27	1.8	ug/kg dry	1.00	01/13/09 04:43	CDC	9A12047	8260B
Acetone	ND		27	2.1	ug/kg dry	1.00	01/13/09 04:43	CDC	9A12047	8260B
Benzene	ND		5.4	0.27	ug/kg dry	1.00	01/13/09 04:43	CDC	9A12047	8260B
Bromodichloromethane	ND		5.4	0.28	ug/kg dry	1.00	01/13/09 04:43	CDC	9A12047	8260B

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Watts Engineers
3826 Main Street
Buffalo, NY 14226

Work Order: RSA0235
Project: Watts Engineers Artpark Phase II
Project Number: 48000480

Received: 01/08/09
Reported: 02/19/09 16:11

Analytical Report

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: RSA0235-05 (B-8 - Solid) - cont.						Sampled: 01/08/09 09:50		Recvd: 01/08/09 12:20		
<u>Volatile Organic Compounds by EPA 8260B - cont.</u>										
Bromoform	ND		5.4	0.50	ug/kg dry	1.00	01/13/09 04:43	CDC	9A12047	8260B
Bromomethane	ND		5.4	0.50	ug/kg dry	1.00	01/13/09 04:43	CDC	9A12047	8260B
Carbon disulfide	ND		5.4	0.47	ug/kg dry	1.00	01/13/09 04:43	CDC	9A12047	8260B
Carbon Tetrachloride	ND		5.4	0.20	ug/kg dry	1.00	01/13/09 04:43	CDC	9A12047	8260B
Chlorobenzene	ND		5.4	0.24	ug/kg dry	1.00	01/13/09 04:43	CDC	9A12047	8260B
Chlorodibromomethane	ND		5.4	0.30	ug/kg dry	1.00	01/13/09 04:43	CDC	9A12047	8260B
Chloroethane	ND		5.4	0.88	ug/kg dry	1.00	01/13/09 04:43	CDC	9A12047	8260B
Chloroform	ND		5.4	0.34	ug/kg dry	1.00	01/13/09 04:43	CDC	9A12047	8260B
Chloromethane	ND		5.4	0.38	ug/kg dry	1.00	01/13/09 04:43	CDC	9A12047	8260B
cis-1,2-Dichloroethene	ND		5.4	0.27	ug/kg dry	1.00	01/13/09 04:43	CDC	9A12047	8260B
cis-1,3-Dichloropropene	ND		5.4	0.31	ug/kg dry	1.00	01/13/09 04:43	CDC	9A12047	8260B
Cyclohexane	ND		5.4	0.25	ug/kg dry	1.00	01/13/09 04:43	CDC	9A12047	8260B
Dichlorodifluoromethane	ND	L2	5.4	0.45	ug/kg dry	1.00	01/13/09 04:43	CDC	9A12047	8260B
Ethylbenzene	ND		5.4	0.37	ug/kg dry	1.00	01/13/09 04:43	CDC	9A12047	8260B
Isopropylbenzene	ND		5.4	0.36	ug/kg dry	1.00	01/13/09 04:43	CDC	9A12047	8260B
Methyl Acetate	ND		5.4	0.19	ug/kg dry	1.00	01/13/09 04:43	CDC	9A12047	8260B
Methyl tert-Butyl Ether	ND		5.4	0.17	ug/kg dry	1.00	01/13/09 04:43	CDC	9A12047	8260B
Methylcyclohexane	ND		5.4	0.35	ug/kg dry	1.00	01/13/09 04:43	CDC	9A12047	8260B
Methylene Chloride	5.9		5.4	0.38	ug/kg dry	1.00	01/13/09 04:43	CDC	9A12047	8260B
Styrene	ND		5.4	0.27	ug/kg dry	1.00	01/13/09 04:43	CDC	9A12047	8260B
tetrachloroethene	ND		5.4	0.73	ug/kg dry	1.00	01/13/09 04:43	CDC	9A12047	8260B
Toluene	ND		5.4	0.55	ug/kg dry	1.00	01/13/09 04:43	CDC	9A12047	8260B
trans-1,2-Dichloroethene	ND		5.4	0.56	ug/kg dry	1.00	01/13/09 04:43	CDC	9A12047	8260B
trans-1,3-Dichloropropene	ND		5.4	0.27	ug/kg dry	1.00	01/13/09 04:43	CDC	9A12047	8260B
Trichloroethene	ND		5.4	0.37	ug/kg dry	1.00	01/13/09 04:43	CDC	9A12047	8260B
Trichlorofluoromethane	ND		5.4	1.7	ug/kg dry	1.00	01/13/09 04:43	CDC	9A12047	8260B
Vinyl chloride	ND		11	0.22	ug/kg dry	1.00	01/13/09 04:43	CDC	9A12047	8260B
Xylenes, total	ND		3.3	1.0	ug/kg dry	1.00	01/13/09 04:43	CDC	9A12047	8260B
Surr: 1,2-Dichloroethane-d4 (61-136%)	100 %						01/13/09 04:43	CDC	9A12047	8260B
Surr: 4-Bromofluorobenzene (72-126%)	100 %						01/13/09 04:43	CDC	9A12047	8260B
Surr: Toluene-d8 (71-123%)	105 %						01/13/09 04:43	CDC	9A12047	8260B

Watts Engineers
3826 Main Street
Buffalo, NY 14226

Work Order: RSA0235
Project: Watts Engineers Artpark Phase II
Project Number: 48000480

Received: 01/08/09
Reported: 02/19/09 16:11

Analytical Report

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: RSA0235-06 (B-9 - Solid)			Sampled: 01/08/09 10:25				Recvd: 01/08/09 12:20			
General Chemistry Parameters										
Percent Solids	92.9		0.0100	NA	%	1.00	01/14/09 00:00	JU	9A13003	Dry Weight
Cyanide	ND		0.828	0.720	mg/kg dry	1.00	01/15/09 08:27	jmm	9A15046	9012A
Organochlorine Pesticides by EPA Method 8081A										
4,4'-DDE	2.10		1.77	0.509	ug/kg dry	1.00	01/14/09 20:50	tch	9A11011	8081A
4,4'-DDT	1.45	J	1.77	0.402	ug/kg dry	1.00	01/14/09 20:50	tch	9A11011	8081A
Aldrin	ND		1.77	1.11	ug/kg dry	1.00	01/14/09 20:50	tch	9A11011	8081A
alpha-BHC	ND		1.77	1.00	ug/kg dry	1.00	01/14/09 20:50	tch	9A11011	8081A
beta-BHC	ND		1.77	1.28	ug/kg dry	1.00	01/14/09 20:50	tch	9A11011	8081A
Chlordane	ND		17.7	7.22	ug/kg dry	1.00	01/14/09 20:50	tch	9A11011	8081A
delta-BHC	0.750	J	1.77	0.423	ug/kg dry	1.00	01/14/09 20:50	tch	9A11011	8081A
Dieldrin	0.559	J	1.77	0.423	ug/kg dry	1.00	01/14/09 20:50	tch	9A11011	8081A
Endosulfan I	1.24	J	1.77	0.680	ug/kg dry	1.00	01/14/09 20:50	tch	9A11011	8081A
Endosulfan II	ND		1.77	0.318	ug/kg dry	1.00	01/14/09 20:50	tch	9A11011	8081A
Endosulfan sulfate	ND		1.77	0.329	ug/kg dry	1.00	01/14/09 20:50	tch	9A11011	8081A
Endrin	ND		1.77	0.572	ug/kg dry	1.00	01/14/09 20:50	tch	9A11011	8081A
Endrin aldehyde	ND		1.77	0.720	ug/kg dry	1.00	01/14/09 20:50	tch	9A11011	8081A
Endrin ketone	ND		1.77	0.434	ug/kg dry	1.00	01/14/09 20:50	tch	9A11011	8081A
gamma-BHC (Lindane)	ND		1.77	0.974	ug/kg dry	1.00	01/14/09 20:50	tch	9A11011	8081A
Heptachlor	ND		1.77	0.879	ug/kg dry	1.00	01/14/09 20:50	tch	9A11011	8081A
Heptachlor epoxide	ND		1.77	0.455	ug/kg dry	1.00	01/14/09 20:50	tch	9A11011	8081A
Methoxychlor	ND		1.77	0.471	ug/kg dry	1.00	01/14/09 20:50	tch	9A11011	8081A
Toxaphene	ND		17.7	10.3	ug/kg dry	1.00	01/14/09 20:50	tch	9A11011	8081A
Surr: Decachlorobiphenyl (42-146%)	120 %						01/14/09 20:50	tch	9A11011	8081A
Surr: Tetrachloro-m-xylene (37-136%)	99 %						01/14/09 20:50	tch	9A11011	8081A
Polychlorinated Biphenyls by EPA Method 8082										
Aroclor 1016 [2C]	ND		17.7	3.45	ug/kg dry	1.00	01/14/09 14:32	tch	9A13026	8082
Aroclor 1221 [2C]	ND		17.7	3.45	ug/kg dry	1.00	01/14/09 14:32	tch	9A13026	8082
Aroclor 1232 [2C]	ND		17.7	3.45	ug/kg dry	1.00	01/14/09 14:32	tch	9A13026	8082
Aroclor 1242 [2C]	ND		17.7	3.83	ug/kg dry	1.00	01/14/09 14:32	tch	9A13026	8082
Aroclor 1248 [2C]	ND		17.7	3.46	ug/kg dry	1.00	01/14/09 14:32	tch	9A13026	8082
Aroclor 1254 [2C]	ND		17.7	3.73	ug/kg dry	1.00	01/14/09 14:32	tch	9A13026	8082
Aroclor 1260 [2C]	ND		17.7	3.73	ug/kg dry	1.00	01/14/09 14:32	tch	9A13026	8082
Surr: Decachlorobiphenyl [2C] (34-148%)	84 %						01/14/09 14:32	tch	9A13026	8082
Surr: Tetrachloro-m-xylene [2C] (35-134%)	97 %						01/14/09 14:32	tch	9A13026	8082
Semivolatile Organics by GC/MS										
2,4,5-Trichlorophenol	ND	D02	180	39	ug/kg dry	1.00	01/19/09 17:45	JLG	9A13076	8270C
2,4,6-Trichlorophenol	ND	D02	180	12	ug/kg dry	1.00	01/19/09 17:45	JLG	9A13076	8270C
2,4-Dichlorophenol	ND	D02	180	9.4	ug/kg dry	1.00	01/19/09 17:45	JLG	9A13076	8270C
2,4-Dimethylphenol	ND	D02	180	48	ug/kg dry	1.00	01/19/09 17:45	JLG	9A13076	8270C
2,4-Dinitrophenol	ND	D02	350	62	ug/kg dry	1.00	01/19/09 17:45	JLG	9A13076	8270C
2,4-Dinitrotoluene	ND	D02	180	28	ug/kg dry	1.00	01/19/09 17:45	JLG	9A13076	8270C
2,6-Dinitrotoluene	ND	D02	180	44	ug/kg dry	1.00	01/19/09 17:45	JLG	9A13076	8270C
2-Chloronaphthalene	ND	D02	180	12	ug/kg dry	1.00	01/19/09 17:45	JLG	9A13076	8270C
2-Chlorophenol	ND	D02	180	9.1	ug/kg dry	1.00	01/19/09 17:45	JLG	9A13076	8270C
2-Methylnaphthalene	ND	D02	180	2.2	ug/kg dry	1.00	01/19/09 17:45	JLG	9A13076	8270C
2-Methylphenol	ND	D02	180	5.5	ug/kg dry	1.00	01/19/09 17:45	JLG	9A13076	8270C
2-Nitroaniline	ND	D02	350	57	ug/kg dry	1.00	01/19/09 17:45	JLG	9A13076	8270C
2-Nitrophenol	ND	D02	180	8.2	ug/kg dry	1.00	01/19/09 17:45	JLG	9A13076	8270C
1,3'-Dichlorobenzidine	ND	D02	180	160	ug/kg dry	1.00	01/19/09 17:45	JLG	9A13076	8270C
3-Nitroaniline	ND	D02	350	41	ug/kg dry	1.00	01/19/09 17:45	JLG	9A13076	8270C

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Watts Engineers
3826 Main Street
Buffalo, NY 14226

Work Order: RSA0235
Project: Watts Engineers Artpark Phase II
Project Number: 48000480

Received: 01/08/09
Reported: 02/19/09 16:11

Analytical Report

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: RSA0235-06 (B-9 - Solid) - cont.						Sampled: 01/08/09 10:25		Recvd: 01/08/09 12:20		
<u>Semivolatile Organics by GC/MS - cont.</u>										
4,6-Dinitro-2-methylphenol	ND	D02	350	62	ug/kg dry	1.00	01/19/09 17:45	JLG	9A13076	8270C
4-Bromophenyl phenyl ether	ND	D02	180	57	ug/kg dry	1.00	01/19/09 17:45	JLG	9A13076	8270C
4-Chloro-3-methylphenol	ND	D02	180	7.3	ug/kg dry	1.00	01/19/09 17:45	JLG	9A13076	8270C
4-Chloroaniline	ND	D02	180	52	ug/kg dry	1.00	01/19/09 17:45	JLG	9A13076	8270C
4-Chlorophenyl phenyl ether	ND	D02	180	3.8	ug/kg dry	1.00	01/19/09 17:45	JLG	9A13076	8270C
4-Methylphenol	ND	D02	180	9.9	ug/kg dry	1.00	01/19/09 17:45	JLG	9A13076	8270C
4-Nitroaniline	ND	D02	350	20	ug/kg dry	1.00	01/19/09 17:45	JLG	9A13076	8270C
4-Nitrophenol	ND	D02	350	43	ug/kg dry	1.00	01/19/09 17:45	JLG	9A13076	8270C
Acenaphthene	ND	D02	180	2.1	ug/kg dry	1.00	01/19/09 17:45	JLG	9A13076	8270C
Acenaphthylene	ND	D02	180	1.5	ug/kg dry	1.00	01/19/09 17:45	JLG	9A13076	8270C
Acetophenone	ND	D02	180	9.2	ug/kg dry	1.00	01/19/09 17:45	JLG	9A13076	8270C
Anthracene	ND	D02	180	4.6	ug/kg dry	1.00	01/19/09 17:45	JLG	9A13076	8270C
Atrazine	ND	D02	180	7.9	ug/kg dry	1.00	01/19/09 17:45	JLG	9A13076	8270C
Benzaldehyde	ND	D02	180	20	ug/kg dry	1.00	01/19/09 17:45	JLG	9A13076	8270C
Benzo[a]anthracene	ND	D02	180	3.1	ug/kg dry	1.00	01/19/09 17:45	JLG	9A13076	8270C
Benzo[a]pyrene	ND	D02	180	4.3	ug/kg dry	1.00	01/19/09 17:45	JLG	9A13076	8270C
Benzo[b]fluoranthene	ND	D02	180	3.5	ug/kg dry	1.00	01/19/09 17:45	JLG	9A13076	8270C
Benzo[g,h,i]perylene	ND	D02	180	2.1	ug/kg dry	1.00	01/19/09 17:45	JLG	9A13076	8270C
Benzo[k]fluoranthene	ND	D02	180	2.0	ug/kg dry	1.00	01/19/09 17:45	JLG	9A13076	8270C
Biphenyl	ND	D02	180	11	ug/kg dry	1.00	01/19/09 17:45	JLG	9A13076	8270C
Bis(2-chloroethoxy)methane	ND	D02	180	9.7	ug/kg dry	1.00	01/19/09 17:45	JLG	9A13076	8270C
Bis(2-chloroethyl)ether	ND	D02	180	15	ug/kg dry	1.00	01/19/09 17:45	JLG	9A13076	8270C
Bis(2-chloroisopropyl) ether	ND	D02	180	19	ug/kg dry	1.00	01/19/09 17:45	JLG	9A13076	8270C
Bis(2-ethylhexyl) phthalate	120	J, D02	180	57	ug/kg dry	1.00	01/19/09 17:45	JLG	9A13076	8270C
Butyl benzyl phthalate	ND	D02	180	48	ug/kg dry	1.00	01/19/09 17:45	JLG	9A13076	8270C
Caprolactam	ND	D02	180	77	ug/kg dry	1.00	01/19/09 17:45	JLG	9A13076	8270C
Carbazole	ND	D02	180	2.1	ug/kg dry	1.00	01/19/09 17:45	JLG	9A13076	8270C
Chrysene	ND	D02	180	1.8	ug/kg dry	1.00	01/19/09 17:45	JLG	9A13076	8270C
Dibenz[a,h]anthracene	ND	D02	180	2.1	ug/kg dry	1.00	01/19/09 17:45	JLG	9A13076	8270C
Dibenzofuran	ND	D02	180	1.9	ug/kg dry	1.00	01/19/09 17:45	JLG	9A13076	8270C
Diethyl phthalate	ND	D02	180	5.4	ug/kg dry	1.00	01/19/09 17:45	JLG	9A13076	8270C
Dimethyl phthalate	ND	D02	180	4.7	ug/kg dry	1.00	01/19/09 17:45	JLG	9A13076	8270C
Di-n-butyl phthalate	ND	D02	180	62	ug/kg dry	1.00	01/19/09 17:45	JLG	9A13076	8270C
Di-n-octyl phthalate	ND	D02	180	4.2	ug/kg dry	1.00	01/19/09 17:45	JLG	9A13076	8270C
Fluoranthene	ND	D02	180	2.6	ug/kg dry	1.00	01/19/09 17:45	JLG	9A13076	8270C
Fluorene	ND	D02	180	4.1	ug/kg dry	1.00	01/19/09 17:45	JLG	9A13076	8270C
Hexachlorobenzene	ND	D02	180	8.9	ug/kg dry	1.00	01/19/09 17:45	JLG	9A13076	8270C
Hexachlorobutadiene	ND	D02	180	9.1	ug/kg dry	1.00	01/19/09 17:45	JLG	9A13076	8270C
Hexachlorocyclopentadiene	ND	D02	180	54	ug/kg dry	1.00	01/19/09 17:45	JLG	9A13076	8270C
Hexachloroethane	ND	D02	180	14	ug/kg dry	1.00	01/19/09 17:45	JLG	9A13076	8270C
Indeno[1,2,3-cd]pyrene	ND	D02	180	4.9	ug/kg dry	1.00	01/19/09 17:45	JLG	9A13076	8270C
Isophorone	ND	D02	180	8.9	ug/kg dry	1.00	01/19/09 17:45	JLG	9A13076	8270C
Naphthalene	ND	D02	180	3.0	ug/kg dry	1.00	01/19/09 17:45	JLG	9A13076	8270C
Nitrobenzene	ND	D02	180	7.9	ug/kg dry	1.00	01/19/09 17:45	JLG	9A13076	8270C
N-Nitrosodi-n-propylamine	ND	D02	180	14	ug/kg dry	1.00	01/19/09 17:45	JLG	9A13076	8270C
N-Nitrosodiphenylamine	ND	D02	180	9.8	ug/kg dry	1.00	01/19/09 17:45	JLG	9A13076	8270C
Pentachlorophenol	ND	D02	350	61	ug/kg dry	1.00	01/19/09 17:45	JLG	9A13076	8270C
Phenanthrene	ND	D02	180	3.7	ug/kg dry	1.00	01/19/09 17:45	JLG	9A13076	8270C
Phenol	ND	D02	180	19	ug/kg dry	1.00	01/19/09 17:45	JLG	9A13076	8270C
Pyrene	ND	D02	180	1.2	ug/kg dry	1.00	01/19/09 17:45	JLG	9A13076	8270C

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Watts Engineers
3826 Main Street
Buffalo, NY 14226

Work Order: RSA0235
Project: Watts Engineers Artpark Phase II
Project Number: 48000480

Received: 01/08/09
Reported: 02/19/09 16:11

Analytical Report

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: RSA0235-06 (B-9 - Solid) - cont.						Sampled: 01/08/09 10:25		Recvd: 01/08/09 12:20		
<u>Semivolatile Organics by GC/MS - cont.</u>										
Surr: 2,4,6-Tribromophenol (39-146%)	42 %	D02					01/19/09 17:45	JLG	9A13076	8270C
Surr: 2-Fluorobiphenyl (37-120%)	46 %	D02					01/19/09 17:45	JLG	9A13076	8270C
Surr: 2-Fluorophenol (18-120%)	39 %	D02					01/19/09 17:45	JLG	9A13076	8270C
Surr: Nitrobenzene-d5 (34-132%)	47 %	D02					01/19/09 17:45	JLG	9A13076	8270C
Surr: Phenol-d5 (11-120%)	43 %	D02					01/19/09 17:45	JLG	9A13076	8270C
Surr: p-Terphenyl-d14 (58-147%)	38 %	Z6, D02					01/19/09 17:45	JLG	9A13076	8270C
<u>Total Metals by SW 846 Series Methods</u>										
Aluminum	9420		10.3	0.0243	mg/kg dry	1.00	01/15/09 04:02	AH	9A14015	6010B
Antimony	ND		15.5	0.00365	mg/kg dry	1.00	01/15/09 04:02	AH	9A14015	6010B
Arsenic	4.51		2.06	0.00381	mg/kg dry	1.00	01/15/09 04:02	AH	9A14015	6010B
Barium	56.7		0.515	0.000288	mg/kg dry	1.00	01/15/09 04:02	AH	9A14015	6010B
Beryllium	0.539		0.206	0.000340	mg/kg dry	1.00	01/15/09 04:02	AH	9A14015	6010B
Cadmium	0.0134	J	0.206	0.000340	mg/kg dry	1.00	01/15/09 04:02	AH	9A14015	6010B
Calcium	67100	D08	258	0.515	mg/kg dry	5.00	01/15/09 17:58	AH	9A14015	6010B
Chromium	12.7		0.515	0.000907	mg/kg dry	1.00	01/15/09 04:02	AH	9A14015	6010B
Cobalt	9.85		0.515	0.00109	mg/kg dry	1.00	01/15/09 04:02	AH	9A14015	6010B
Copper	13.6		1.03	0.00130	mg/kg dry	1.00	01/15/09 04:02	AH	9A14015	6010B
Iron	14900		10.3	0.0199	mg/kg dry	1.00	01/15/09 04:02	AH	9A14015	6010B
Lead	9.22		1.03	0.00299	mg/kg dry	1.00	01/15/09 04:02	AH	9A14015	6010B
Magnesium	30600		20.6	0.0436	mg/kg dry	1.00	01/15/09 04:02	AH	9A14015	6010B
Manganese	546		0.206	0.000247	mg/kg dry	1.00	01/15/09 04:02	AH	9A14015	6010B
Nickel	21.6		0.515	0.00106	mg/kg dry	1.00	01/15/09 04:02	AH	9A14015	6010B
Potassium	2220		30.9	0.0515	mg/kg dry	1.00	01/15/09 04:02	AH	9A14015	6010B
Selenium	ND		4.12	0.00628	mg/kg dry	1.00	01/15/09 04:02	AH	9A14015	6010B
Silver	0.0175	J	0.515	0.00131	mg/kg dry	1.00	01/15/09 04:02	AH	9A14015	6010B
Sodium	123	J	144	0.349	mg/kg dry	1.00	01/15/09 04:02	AH	9A14015	6010B
Thallium	0.642	J	6.18	0.00606	mg/kg dry	1.00	01/15/09 04:02	AH	9A14015	6010B
Vanadium	14.1		0.515	0.00101	mg/kg dry	1.00	01/15/09 04:02	AH	9A14015	6010B
Zinc	50.9		2.06	0.00371	mg/kg dry	1.00	01/15/09 04:02	AH	9A14015	6010B
Mercury	ND		0.0227	0.00919	mg/kg dry	1.00	01/15/09 16:05	MM	9A15039	7471A
<u>Volatile Organic Compounds by EPA 8260B</u>										
1,1,1-Trichloroethane	ND		5.2	0.38	ug/kg dry	1.00	01/13/09 05:08	CDC	9A12047	8260B
1,1,2,2-Tetrachloroethane	ND		5.2	0.84	ug/kg dry	1.00	01/13/09 05:08	CDC	9A12047	8260B
1,1,2-Trichloroethane	ND		5.2	0.26	ug/kg dry	1.00	01/13/09 05:08	CDC	9A12047	8260B
1,1,2-Trichlorotrifluoroethane	ND		5.2	0.55	ug/kg dry	1.00	01/13/09 05:08	CDC	9A12047	8260B
1,1-Dichloroethane	ND		5.2	0.26	ug/kg dry	1.00	01/13/09 05:08	CDC	9A12047	8260B
1,1-Dichloroethene	ND		5.2	0.64	ug/kg dry	1.00	01/13/09 05:08	CDC	9A12047	8260B
1,2,4-Trichlorobenzene	ND		5.2	0.32	ug/kg dry	1.00	01/13/09 05:08	CDC	9A12047	8260B
1,2-Dibromo-3-chloropropane	ND		5.2	1.0	ug/kg dry	1.00	01/13/09 05:08	CDC	9A12047	8260B
1,2-Dibromoethane (EDB)	ND		5.2	0.20	ug/kg dry	1.00	01/13/09 05:08	CDC	9A12047	8260B
1,2-Dichlorobenzene	ND		5.2	0.78	ug/kg dry	1.00	01/13/09 05:08	CDC	9A12047	8260B
1,2-Dichloroethane	ND		5.2	0.26	ug/kg dry	1.00	01/13/09 05:08	CDC	9A12047	8260B
1,2-Dichloropropane	ND		5.2	0.27	ug/kg dry	1.00	01/13/09 05:08	CDC	9A12047	8260B
1,3-Dichlorobenzene	ND		5.2	0.73	ug/kg dry	1.00	01/13/09 05:08	CDC	9A12047	8260B
1,4-Dichlorobenzene	ND		5.2	0.73	ug/kg dry	1.00	01/13/09 05:08	CDC	9A12047	8260B
2-Butanone (MEK)	ND		26	7.1	ug/kg dry	1.00	01/13/09 05:08	CDC	9A12047	8260B
2-Hexanone	ND		26	1.8	ug/kg dry	1.00	01/13/09 05:08	CDC	9A12047	8260B
4-Methyl-2-pentanone (MIBK)	ND		26	1.7	ug/kg dry	1.00	01/13/09 05:08	CDC	9A12047	8260B
Acetone	ND		26	2.1	ug/kg dry	1.00	01/13/09 05:08	CDC	9A12047	8260B
Toluene	ND		5.2	0.25	ug/kg dry	1.00	01/13/09 05:08	CDC	9A12047	8260B
Bromodichloromethane	ND		5.2	0.27	ug/kg dry	1.00	01/13/09 05:08	CDC	9A12047	8260B

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Watts Engineers
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Work Order: RSA0235
Project: Watts Engineers Artpark Phase II
Project Number: 48000480

Received: 01/08/09
Reported: 02/19/09 16:11

Analytical Report

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: RSA0235-06 (B-9 - Solid) - cont.						Sampled: 01/08/09 10:25		Recvd: 01/08/09 12:20		
<u>Volatile Organic Compounds by EPA 8260B - cont.</u>										
Bromoform	ND		5.2	0.48	ug/kg dry	1.00	01/13/09 05:08	CDC	9A12047	8260B
Bromomethane	ND		5.2	0.48	ug/kg dry	1.00	01/13/09 05:08	CDC	9A12047	8260B
Carbon disulfide	ND		5.2	0.45	ug/kg dry	1.00	01/13/09 05:08	CDC	9A12047	8260B
Carbon Tetrachloride	ND		5.2	0.19	ug/kg dry	1.00	01/13/09 05:08	CDC	9A12047	8260B
Chlorobenzene	ND		5.2	0.23	ug/kg dry	1.00	01/13/09 05:08	CDC	9A12047	8260B
Chlorodibromomethane	ND		5.2	0.29	ug/kg dry	1.00	01/13/09 05:08	CDC	9A12047	8260B
Chloroethane	ND		5.2	0.84	ug/kg dry	1.00	01/13/09 05:08	CDC	9A12047	8260B
Chloroform	ND		5.2	0.32	ug/kg dry	1.00	01/13/09 05:08	CDC	9A12047	8260B
Chloromethane	ND		5.2	0.36	ug/kg dry	1.00	01/13/09 05:08	CDC	9A12047	8260B
cis-1,2-Dichloroethene	ND		5.2	0.26	ug/kg dry	1.00	01/13/09 05:08	CDC	9A12047	8260B
cis-1,3-Dichloropropene	ND		5.2	0.30	ug/kg dry	1.00	01/13/09 05:08	CDC	9A12047	8260B
Cyclohexane	ND		5.2	0.24	ug/kg dry	1.00	01/13/09 05:08	CDC	9A12047	8260B
Dichlorodifluoromethane	ND	L2	5.2	0.43	ug/kg dry	1.00	01/13/09 05:08	CDC	9A12047	8260B
Ethylbenzene	ND		5.2	0.36	ug/kg dry	1.00	01/13/09 05:08	CDC	9A12047	8260B
Isopropylbenzene	ND		5.2	0.34	ug/kg dry	1.00	01/13/09 05:08	CDC	9A12047	8260B
Methyl Acetate	ND		5.2	0.18	ug/kg dry	1.00	01/13/09 05:08	CDC	9A12047	8260B
Methyl tert-Butyl Ether	ND		5.2	0.16	ug/kg dry	1.00	01/13/09 05:08	CDC	9A12047	8260B
Methylcyclohexane	ND		5.2	0.34	ug/kg dry	1.00	01/13/09 05:08	CDC	9A12047	8260B
Methylene Chloride	6.2		5.2	0.36	ug/kg dry	1.00	01/13/09 05:08	CDC	9A12047	8260B
Styrene	ND		5.2	0.26	ug/kg dry	1.00	01/13/09 05:08	CDC	9A12047	8260B
Tetrachloroethene	ND		5.2	0.70	ug/kg dry	1.00	01/13/09 05:08	CDC	9A12047	8260B
Toluene	ND		5.2	0.53	ug/kg dry	1.00	01/13/09 05:08	CDC	9A12047	8260B
trans-1,2-Dichloroethene	ND		5.2	0.54	ug/kg dry	1.00	01/13/09 05:08	CDC	9A12047	8260B
trans-1,3-Dichloropropene	ND		5.2	0.26	ug/kg dry	1.00	01/13/09 05:08	CDC	9A12047	8260B
Trichloroethene	ND		5.2	0.36	ug/kg dry	1.00	01/13/09 05:08	CDC	9A12047	8260B
Trichlorofluoromethane	ND		5.2	1.6	ug/kg dry	1.00	01/13/09 05:08	CDC	9A12047	8260B
Vinyl chloride	ND		10	0.21	ug/kg dry	1.00	01/13/09 05:08	CDC	9A12047	8260B
Xylenes, total	ND		3.1	0.97	ug/kg dry	1.00	01/13/09 05:08	CDC	9A12047	8260B
Surr: 1,2-Dichloroethane-d4 (61-136%)	100 %						01/13/09 05:08	CDC	9A12047	8260B
Surr: 4-Bromofluorobenzene (72-126%)	99 %						01/13/09 05:08	CDC	9A12047	8260B
Surr: Toluene-d8 (71-125%)	104 %						01/13/09 05:08	CDC	9A12047	8260B

Watts Engineers
3826 Main Street
Buffalo, NY 14226

Work Order: RSA0235
Project: Watts Engineers Artpark Phase II
Project Number: 48000480

Received: 01/08/09
Reported: 02/19/09 16:11

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracted	Extracted Volume	Date	Analyst	Extraction Method
General Chemistry Parameters							
9012A	9A14018	RSA0235-01	0.56	50.00	01/14/09 10:45	MDM	Cn Digestion
9012A	9A14018	RSA0235-02	0.54	50.00	01/14/09 10:45	MDM	Cn Digestion
9012A	9A14018	RSA0235-03	0.56	50.00	01/14/09 10:45	MDM	Cn Digestion
9012A	9A14018	RSA0235-04	0.52	50.00	01/14/09 10:45	MDM	Cn Digestion
9012A	9A15046	RSA0235-05	0.78	50.00	01/13/09 11:00	MDM	Cn Digestion
9012A	9A15046	RSA0235-06	0.65	50.00	01/13/09 11:00	MDM	Cn Digestion
Dry Weight	9A13003	RSA0235-01	10.00	10.00	01/13/09 08:02	JRS	Dry Weight
Dry Weight	9A13003	RSA0235-02	10.00	10.00	01/13/09 08:02	JRS	Dry Weight
Dry Weight	9A13003	RSA0235-03	10.00	10.00	01/13/09 08:02	JRS	Dry Weight
Dry Weight	9A13003	RSA0235-04	10.00	10.00	01/13/09 08:02	JRS	Dry Weight
Dry Weight	9A13003	RSA0235-05	10.00	10.00	01/13/09 08:02	JRS	Dry Weight
Dry Weight	9A13003	RSA0235-06	10.00	10.00	01/13/09 08:02	JRS	Dry Weight
Organochlorine Pesticides by EPA Method 8081A							
8081A	9A11011	RSA0235-01	30.50	10.00	01/12/09 14:00	LT	3550B GC
8081A	9A11011	RSA0235-02	30.50	10.00	01/12/09 14:00	LT	3550B GC
8081A	9A11011	RSA0235-03	30.50	10.00	01/12/09 14:00	LT	3550B GC
8081A	9A11011	RSA0235-04	30.50	10.00	01/12/09 14:00	LT	3550B GC
8081A	9A11011	RSA0235-05	30.50	10.00	01/12/09 14:00	LT	3550B GC
8081A	9A11011	RSA0235-06	30.50	10.00	01/12/09 14:00	LT	3550B GC
Polychlorinated Biphenyls by EPA Method 8082							
8082	9A13026	RSA0235-01	30.50	10.00	01/12/09 14:00	LT	3550B GC
8082	9A13026	RSA0235-02	30.50	10.00	01/12/09 14:00	LT	3550B GC
8082	9A13026	RSA0235-03	30.50	10.00	01/12/09 14:00	LT	3550B GC
8082	9A13026	RSA0235-04	30.50	10.00	01/12/09 14:00	LT	3550B GC
8082	9A13026	RSA0235-05	30.50	10.00	01/12/09 14:00	LT	3550B GC
8082	9A13026	RSA0235-06	30.50	10.00	01/12/09 14:00	LT	3550B GC
Semivolatiles Organics by GC/MS							
8270C	9A13076	RSA0235-01	30.67	1.00	01/14/09 08:00	JB	3550B MB
8270C	9A13076	RSA0235-02	30.58	1.00	01/14/09 08:00	JB	3550B MB
8270C	9A13076	RSA0235-03	30.55	1.00	01/14/09 08:00	JB	3550B MB
8270C	9A13076	RSA0235-04	30.66	1.00	01/14/09 08:00	JB	3550B MB
8270C	9A13076	RSA0235-05	30.90	1.00	01/14/09 08:00	JB	3550B MB
8270C	9A13076	RSA0235-06	30.55	1.00	01/14/09 08:00	JB	3550B MB
Total Metals by SW 846 Series Methods							
6010B	9A14015	RSA0235-01	0.46	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-01	0.46	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-01	0.46	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-01	0.46	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-01	0.46	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-01	0.46	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-01	0.46	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-01	0.46	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-01	0.46	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-01	0.46	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-01	0.46	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-01	0.46	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-01	0.46	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-01	0.46	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-01	0.46	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-01	0.46	50.00	01/14/09 11:30	MLD	3050B

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Work Order: RSA0235
Project: Watts Engineers Artpark Phase II
Project Number: 48000480

Received: 01/08/09
Reported: 02/19/09 16:11

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracted	Extracted Volume	Date	Analyst	Extraction Method
6010B	9A14015	RSA0235-03	0.50	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-03	0.50	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-03	0.50	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-03	0.50	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-03	0.50	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-03	0.50	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-03	0.50	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-04	0.48	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-04	0.48	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-04	0.48	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-04	0.48	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-04	0.48	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-04	0.48	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-04	0.48	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-04	0.48	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-04	0.48	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-04	0.48	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-04	0.48	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-04	0.48	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-04	0.48	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-04	0.48	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-04	0.48	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-05	0.52	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-05	0.52	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-05	0.52	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-05	0.52	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-05	0.52	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-05	0.52	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-05	0.52	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-05	0.52	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-05	0.52	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-05	0.52	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-05	0.52	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-05	0.52	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-05	0.52	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-05	0.52	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-05	0.52	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-05	0.52	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-05	0.52	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-05	0.52	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-05	0.52	50.00	01/14/09 11:30	MLD	3050B

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Project: Watts Engineers Artpark Phase II
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SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracted	Extracted Volume	Date	Analyst	Extraction Method
6010B	9A14015	RSA0235-05	0.52	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-05	0.52	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-05	0.52	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-05	0.52	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-06	0.52	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-06	0.52	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-06	0.52	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-06	0.52	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-06	0.52	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-06	0.52	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-06	0.52	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-06	0.52	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-06	0.52	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-06	0.52	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-06	0.52	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-06	0.52	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-06	0.52	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-06	0.52	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-06	0.52	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-06	0.52	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-06	0.52	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-06	0.52	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-06	0.52	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-06	0.52	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-06	0.52	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-06	0.52	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-06	0.52	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-06	0.52	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-06	0.52	50.00	01/14/09 11:30	MLD	3050B
6010B	9A14015	RSA0235-06	0.52	50.00	01/14/09 11:30	MLD	3050B
7471A	9A15039	RSA0235-01	0.63	50.00	01/15/09 15:00	MM	7471A_
7471A	9A15039	RSA0235-02	0.63	50.00	01/15/09 15:00	MM	7471A_
7471A	9A15039	RSA0235-03	0.65	50.00	01/15/09 15:00	MM	7471A_
7471A	9A15039	RSA0235-04	0.61	50.00	01/15/09 15:00	MM	7471A_
7471A	9A15039	RSA0235-05	0.63	50.00	01/15/09 15:00	MM	7471A_
7471A	9A15039	RSA0235-06	0.57	50.00	01/15/09 15:00	MM	7471A_
Volatile Organic Compounds by EPA 8260B							
8260B	9A12047	RSA0235-01	5.20	5.00	01/12/09 17:34	CDC	5030B MS
8260B	9A12047	RSA0235-02	5.19	5.00	01/12/09 17:34	CDC	5030B MS
8260B	9A12047	RSA0235-03	4.96	5.00	01/12/09 17:34	CDC	5030B MS
8260B	9A12047	RSA0235-04	5.20	5.00	01/12/09 17:34	CDC	5030B MS
8260B	9A12047	RSA0235-05	5.33	5.00	01/12/09 17:34	CDC	5030B MS
8260B	9A12047	RSA0235-06	5.18	5.00	01/12/09 17:34	CDC	5030B MS

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LABORATORY BLANK QC DATA

Analyte	Seq/ Batch	Spike Level	MRL	MDL	Units	Result	% REC	% REC Limits	Qualifiers
General Chemistry Parameters									
Cyanide	9A14018		1.00	0.870	mg/kg wet	ND			
Cyanide	9A15046		1.00	0.870	mg/kg wet	ND			
Organochlorine Pesticides by EPA Method 8081A									
4,4'-DDD	9A11011		1.64	0.319	ug/kg wet	ND			
4,4'-DDE	9A11011		1.64	0.473	ug/kg wet	ND			
4,4'-DDT	9A11011		1.64	0.374	ug/kg wet	ND			
Aldrin	9A11011		1.64	1.03	ug/kg wet	ND			
alpha-BHC	9A11011		1.64	0.931	ug/kg wet	ND			
alpha-Chlordane	9A11011		1.64	0.816	ug/kg wet	ND			
beta-BHC	9A11011		1.64	1.19	ug/kg wet	ND			
delta-BHC	9A11011		1.64	0.393	ug/kg wet	0.715			J
Dieldrin	9A11011		1.64	0.393	ug/kg wet	ND			
Endosulfan I	9A11011		1.64	0.631	ug/kg wet	ND			
Endosulfan II	9A11011		1.64	0.295	ug/kg wet	ND			
Endosulfan sulfate	9A11011		1.64	0.306	ug/kg wet	ND			
Endrin	9A11011		1.64	0.531	ug/kg wet	ND			
Endrin aldehyde	9A11011		1.64	0.669	ug/kg wet	ND			
Endrin ketone	9A11011		1.64	0.403	ug/kg wet	ND			
gamma-BHC (Lindane)	9A11011		1.64	0.905	ug/kg wet	ND			
gamma-Chlordane	9A11011		1.64	0.225	ug/kg wet	ND			
Heptachlor	9A11011		1.64	0.816	ug/kg wet	ND			
Heptachlor epoxide	9A11011		1.64	0.423	ug/kg wet	ND			
Methoxychlor	9A11011		1.64	0.438	ug/kg wet	ND			
Toxaphene	9A11011		16.4	9.54	ug/kg wet	ND			
<i>Surrogate: Decachlorobiphenyl</i>					ug/kg wet		97	42-146	
<i>Surrogate: Tetrachloro-m-xylene</i>					ug/kg wet		83	37-136	
Polychlorinated Biphenyls by EPA Method 8082									
Aroclor 1016 [2C]	9A13026		16.4	3.21	ug/kg wet	ND			
Aroclor 1221 [2C]	9A13026		16.4	3.21	ug/kg wet	ND			
Aroclor 1232 [2C]	9A13026		16.4	3.21	ug/kg wet	ND			
Aroclor 1242 [2C]	9A13026		16.4	3.56	ug/kg wet	ND			
Aroclor 1248 [2C]	9A13026		16.4	3.22	ug/kg wet	ND			
Aroclor 1254 [2C]	9A13026		16.4	3.46	ug/kg wet	ND			
Aroclor 1260 [2C]	9A13026		16.4	3.46	ug/kg wet	ND			
<i>Surrogate: Decachlorobiphenyl [2C]</i>					ug/kg wet		76	34-148	
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>					ug/kg wet		86	35-134	
Semivolatile Organics by GC/MS									
2,4,5-Trichlorophenol	9A13076		170	37	ug/kg wet	ND			

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LABORATORY BLANK QC DATA

Analyte	Seq/ Batch	Spike Level	MRL	MDL	Units	Result	% REC	% REC Limits	Qualifiers
Semivolatile Organics by GC/MS									
2,4,6-Trichlorophenol	9A13076		170	11	ug/kg wet	ND			
2,4-Dichlorophenol	9A13076		170	8.8	ug/kg wet	ND			
2,4-Dimethylphenol	9A13076		170	45	ug/kg wet	ND			
2,4-Dinitrophenol	9A13076		330	59	ug/kg wet	ND			
2,4-Dinitrotoluene	9A13076		170	26	ug/kg wet	ND			
2,6-Dinitrotoluene	9A13076		170	41	ug/kg wet	ND			
2-Chloronaphthalene	9A13076		170	11	ug/kg wet	ND			
2-Chlorophenol	9A13076		170	8.5	ug/kg wet	ND			
2-Methylnaphthalene	9A13076		170	2.0	ug/kg wet	ND			
2-Methylphenol	9A13076		170	5.2	ug/kg wet	ND			
2-Nitroaniline	9A13076		330	54	ug/kg wet	ND			
2-Nitrophenol	9A13076		170	7.7	ug/kg wet	ND			
3,3'-Dichlorobenzidine	9A13076		170	150	ug/kg wet	ND			
3-Nitroaniline	9A13076		330	39	ug/kg wet	ND			
4,6-Dinitro-2-methylphenol	9A13076		330	58	ug/kg wet	ND			
4-Bromophenyl phenyl ether	9A13076		170	53	ug/kg wet	ND			
4-Chloro-3-methylphenol	9A13076		170	6.9	ug/kg wet	ND			
4-Chloroaniline	9A13076		170	49	ug/kg wet	ND			
4-Chlorophenyl phenyl ether	9A13076		170	3.6	ug/kg wet	ND			
4-Methylphenol	9A13076		170	9.3	ug/kg wet	ND			
4-Nitroaniline	9A13076		330	19	ug/kg wet	ND			
4-Nitrophenol	9A13076		330	41	ug/kg wet	ND			
Acenaphthene	9A13076		170	2.0	ug/kg wet	ND			
Acenaphthylene	9A13076		170	1.4	ug/kg wet	ND			
Acetophenone	9A13076		170	8.6	ug/kg wet	ND			
Anthracene	9A13076		170	4.3	ug/kg wet	ND			
Atrazine	9A13076		170	7.5	ug/kg wet	ND			
Benzaldehyde	9A13076		170	18	ug/kg wet	ND			
Benzo[a]anthracene	9A13076		170	2.9	ug/kg wet	ND			
Benzo[a]pyrene	9A13076		170	4.0	ug/kg wet	ND			
Benzo[b]fluoranthene	9A13076		170	3.3	ug/kg wet	ND			
Benzo[g,h,i]perylene	9A13076		170	2.0	ug/kg wet	ND			
Benzo[k]fluoranthene	9A13076		170	1.8	ug/kg wet	ND			
Biphenyl	9A13076		170	10	ug/kg wet	ND			
Bis(2-chloromethoxy)methane	9A13076		170	9.1	ug/kg wet	ND			
Bis(2-chloroethyl)ether	9A13076		170	14	ug/kg wet	ND			
Bis(2-chloroisopropyl) ether	9A13076		170	18	ug/kg wet	ND			
Bis(2-ethylhexyl) phthalate	9A13076		170	54	ug/kg wet	ND			
Butyl benzyl phthalate	9A13076		170	45	ug/kg wet	ND			

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Project: Watts Engineers Artpark Phase II
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LABORATORY BLANK QC DATA

Analyte	Seq/ Batch	Spike Level	MRL	MDL	Units	Result	% REC	% REC Limits	Qualifiers
<u>Semivolatile Organics by GC/MS</u>									
Caprolactam	9A13076		170	73	ug/kg wet	ND			
Carbazole	9A13076		170	1.9	ug/kg wet	ND			
Chrysene	9A13076		170	1.7	ug/kg wet	ND			
Dibenz[a,h]anthracene	9A13076		170	2.0	ug/kg wet	ND			
Dibenzofuran	9A13076		170	1.7	ug/kg wet	ND			
Diethyl phthalate	9A13076		170	5.1	ug/kg wet	ND			
Dimethyl phthalate	9A13076		170	4.4	ug/kg wet	ND			
Di-n-butyl phthalate	9A13076		170	58	ug/kg wet	ND			
Di-n-octyl phthalate	9A13076		170	3.9	ug/kg wet	ND			
Fluoranthene	9A13076		170	2.4	ug/kg wet	ND			
Fluorene	9A13076		170	3.9	ug/kg wet	ND			
Hexachlorobenzene	9A13076		170	8.3	ug/kg wet	ND			
Hexachlorobutadiene	9A13076		170	8.6	ug/kg wet	ND			
Hexachlorocyclopentadiene	9A13076		170	51	ug/kg wet	ND			
Hexachloroethane	9A13076		170	13	ug/kg wet	ND			
Indeno[1,2,3-cd]pyrene	9A13076		170	4.6	ug/kg wet	ND			
Isophorone	9A13076		170	8.4	ug/kg wet	ND			
Naphthalene	9A13076		170	2.8	ug/kg wet	ND			
Nitrobenzene	9A13076		170	7.4	ug/kg wet	ND			
N-Nitrosodi-n-propylamine	9A13076		170	13	ug/kg wet	ND			
N-Nitrosodiphenylamine	9A13076		170	9.2	ug/kg wet	ND			
Pentachlorophenol	9A13076		330	58	ug/kg wet	ND			
Phenanthrene	9A13076		170	3.5	ug/kg wet	ND			
Phenol	9A13076		170	18	ug/kg wet	ND			
Pyrene	9A13076		170	1.1	ug/kg wet	ND			
Surrogate: 2,4,6-Tribromophenol					ug/kg wet		78	39-146	
Surrogate: 2-Fluorobiphenyl					ug/kg wet		71	37-120	
Surrogate: 2-Fluorophenol					ug/kg wet		63	18-120	
Surrogate: Nitrobenzene-d5					ug/kg wet		75	34-132	
Surrogate: Phenol-d5					ug/kg wet		67	11-120	
Surrogate: p-Terphenyl-d14					ug/kg wet		72	58-147	
<u>Total Metals by SW 846 Series Methods</u>									
Aluminum	9A14015		10.0	0.0236	mg/kg wet	ND			
Antimony	9A14015		15.0	0.00548	mg/kg wet	ND			
Arsenic	9A14015		2.00	0.00370	mg/kg wet	ND			
Barium	9A14015		0.500	0.000280	mg/kg wet	0.0230			J
Beryllium	9A14015		0.200	0.000330	mg/kg wet	0.00500			J
Cadmium	9A14015		0.200	0.000330	mg/kg wet	ND			
Calcium	9A14015		50.0	0.100	mg/kg wet	8.48			J
Chromium	9A14015		0.500	0.000880	mg/kg wet	0.0170			J

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Work Order: RSA0235

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Project: Watts Engineers Artpark Phase II
Project Number: 48000480

LABORATORY BLANK QC DATA

Analyte	Seq/ Batch	Spike Level	MRL	MDL	Units	Result	% REC	% REC Limits	Qualifiers
Total Metals by SW 846 Series Methods									
Cobalt	9A14015		0.500	0.00106	mg/kg wet	ND			
Copper	9A14015		1.00	0.00126	mg/kg wet	0.123			J
Iron	9A14015		10.0	0.0193	mg/kg wet	1.97			J
Lead	9A14015		1.00	0.00290	mg/kg wet	0.0240			J
Magnesium	9A14015		20.0	0.0423	mg/kg wet	0.637			J
Manganese	9A14015		0.200	0.000240	mg/kg wet	0.0410			J
Nickel	9A14015		0.500	0.00103	mg/kg wet	ND			
Potassium	9A14015		30.0	0.0500	mg/kg wet	3.97			J
Selenium	9A14015		4.00	0.00610	mg/kg wet	0.0130			J
Silver	9A14015		0.500	0.00127	mg/kg wet	0.0430			J
Sodium	9A14015		140	0.339	mg/kg wet	ND			
Thallium	9A14015		6.00	0.00588	mg/kg wet	0.243			J
Vanadium	9A14015		0.500	0.000980	mg/kg wet	ND			
Zinc	9A14015		2.00	0.00360	mg/kg wet	0.987			J
Mercury	9A15039		0.0204	0.00827	mg/kg wet	ND			
Volatile Organic Compounds by EPA 8260B									
1,1,1-Trichloroethane	9A12047		5.0	0.36	ug/kg wet	ND			
1,1,2,2-Tetrachloroethane	9A12047		5.0	0.81	ug/kg wet	ND			
1,1,2-Trichloroethane	9A12047		5.0	0.25	ug/kg wet	ND			
1,1,2-Trichlorotrifluoroethane	9A12047		5.0	0.53	ug/kg wet	ND			
1,1-Dichloroethane	9A12047		5.0	0.25	ug/kg wet	ND			
1,1-Dichloroethene	9A12047		5.0	0.61	ug/kg wet	ND			
1,2,4-Trichlorobenzene	9A12047		5.0	0.30	ug/kg wet	ND			
1,2-Dibromo-3-chloropropane	9A12047		5.0	1.0	ug/kg wet	ND			
1,2-Dibromoethane (EDB)	9A12047		5.0	0.19	ug/kg wet	ND			
1,2-Dichlorobenzene	9A12047		5.0	0.75	ug/kg wet	ND			
1,2-Dichloroethane	9A12047		5.0	0.25	ug/kg wet	ND			
1,2-Dichloropropane	9A12047		5.0	0.26	ug/kg wet	ND			
1,3-Dichlorobenzene	9A12047		5.0	0.71	ug/kg wet	ND			
1,4-Dichlorobenzene	9A12047		5.0	0.70	ug/kg wet	ND			
2-Butanone (MEK)	9A12047		25	6.8	ug/kg wet	ND			
2-Hexanone	9A12047		25	1.7	ug/kg wet	ND			
4-Methyl-2-pentanone (MIBK)	9A12047		25	1.6	ug/kg wet	ND			
Acetone	9A12047		25	1.1	ug/kg wet	ND			
Benzene	9A12047		5.0	0.24	ug/kg wet	ND			
Bromodichloromethane	9A12047		5.0	0.26	ug/kg wet	ND			
Bromoform	9A12047		5.0	0.46	ug/kg wet	ND			
Bromomethane	9A12047		5.0	0.46	ug/kg wet	ND			
Carbon disulfide	9A12047		5.0	0.43	ug/kg wet	ND			

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LABORATORY BLANK QC DATA

Analyte	Seq/ Batch	Spike Level	MRL	MDL	Units	Result	% REC	% REC Limits	Qualifiers
<u>Volatile Organic Compounds by EPA 8260B</u>									
Carbon Tetrachloride	9A12047		5.0	0.18	ug/kg wet	ND			
Chlorobenzene	9A12047		5.0	0.22	ug/kg wet	ND			
Chlorodibromomethane	9A12047		5.0	0.28	ug/kg wet	ND			
Chloroethane	9A12047		5.0	0.81	ug/kg wet	ND			
Chloroform	9A12047		5.0	0.31	ug/kg wet	ND			
Chloromethane	9A12047		5.0	0.30	ug/kg wet	ND			
cis-1,2-Dichloroethene	9A12047		5.0	0.25	ug/kg wet	ND			
cis-1,3-Dichloropropene	9A12047		5.0	0.29	ug/kg wet	ND			
Cyclohexane	9A12047		5.0	0.23	ug/kg wet	ND			
Dichlorodifluoromethane	9A12047		5.0	0.41	ug/kg wet	ND			L2
Ethylbenzene	9A12047		5.0	0.35	ug/kg wet	ND			
Isopropylbenzene	9A12047		5.0	0.33	ug/kg wet	ND			
Methyl Acetate	9A12047		5.0	0.27	ug/kg wet	ND			
Methyl tert-Butyl Ether	9A12047		5.0	0.49	ug/kg wet	ND			
Methylcyclohexane	9A12047		5.0	0.32	ug/kg wet	ND			
Methylene Chloride	9A12047		5.0	0.35	ug/kg wet	2.4			J
Styrene	9A12047		5.0	0.25	ug/kg wet	ND			
Tetrachloroethene	9A12047		5.0	0.67	ug/kg wet	ND			
Toluene	9A12047		5.0	0.85	ug/kg wet	ND			
trans-1,2-Dichloroethene	9A12047		5.0	0.52	ug/kg wet	ND			
trans-1,3-Dichloropropene	9A12047		5.0	0.24	ug/kg wet	ND			
Trichloroethene	9A12047		5.0	0.35	ug/kg wet	ND			
Trichlorofluoromethane	9A12047		5.0	1.6	ug/kg wet	ND			
Vinyl chloride	9A12047		10	0.20	ug/kg wet	ND			
Xylenes, total	9A12047		15	2.9	ug/kg wet	ND			
Surrogate: 1,2-Dichloroethane-d4					ug/kg wet		93	61-136	
Surrogate: 4-Bromofluorobenzene					ug/kg wet		96	72-126	
Surrogate: Toluene-d8					ug/kg wet		103	71-125	

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LABORATORY DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	MRL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Qualifiers
General Chemistry Parameters												
QC Source Sample: RSA0351-07												
Cyanide	9A14018	ND		1.21	1.05	mg/kg dry	ND					15

Watts Engineers
3826 Main Street
Buffalo, NY 14226

Work Order: RSA0235
Project: Watts Engineers Artpark Phase II
Project Number: 48000480

Received: 01/08/09
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LCS QC DATA

Analyte	Seq/ Batch	Spike Level	MRL	MDL	Units	Result	% REC	% REC Limits	Qualifiers
General Chemistry Parameters									
Cyanide	9A14018	110	1.98	1.72	mg/kg wet	53.8	49	40-160	
Cyanide	9A15046	110	1.76	1.54	mg/kg wet	46.5	42	40-160	
Organochlorine Pesticides by EPA Method 8081A									
4,4'-DDD	9A11011	16.4	1.64	0.319	ug/kg wet	15.7	96	55-129	
4,4'-DDE	9A11011	16.4	1.64	0.473	ug/kg wet	14.3	87	59-120	
4,4'-DDT	9A11011	16.4	1.64	0.374	ug/kg wet	14.7	90	47-145	
Aldrin	9A11011	16.4	1.64	1.03	ug/kg wet	13.6	83	35-120	
alpha-BHC	9A11011	16.4	1.64	0.931	ug/kg wet	12.9	78	49-120	
alpha-Chlordane	9A11011	16.4	1.64	0.816	ug/kg wet	13.8	84	55-120	
beta-BHC	9A11011	16.4	1.64	1.19	ug/kg wet	14.0	86	56-120	
delta-BHC	9A11011	16.4	1.64	0.393	ug/kg wet	13.6	83	45-123	
Dieldrin	9A11011	16.4	1.64	0.393	ug/kg wet	14.7	89	57-120	
Endosulfan I	9A11011	16.4	1.64	0.631	ug/kg wet	13.9	85	29-125	
Endosulfan II	9A11011	16.4	1.64	0.295	ug/kg wet	15.1	92	39-121	
Endosulfan sulfate	9A11011	16.4	1.64	0.306	ug/kg wet	15.2	93	43-120	
Endrin	9A11011	16.4	1.64	0.531	ug/kg wet	14.6	89	54-127	
Endrin aldehyde	9A11011	16.4	1.64	0.669	ug/kg wet	15.8	96	33-120	
gamma-BHC (Lindane)	9A11011	16.4	1.64	0.905	ug/kg wet	13.2	80	50-120	
gamma-Chlordane	9A11011	16.4	1.64	0.225	ug/kg wet	14.0	85	61-120	
Heptachlor	9A11011	16.4	1.64	0.816	ug/kg wet	13.8	84	47-120	
Heptachlor epoxide	9A11011	16.4	1.64	0.423	ug/kg wet	14.8	90	44-122	
Methoxychlor	9A11011	16.4	1.64	0.438	ug/kg wet	14.2	87	46-152	
Surrogate: Decachlorobiphenyl					ug/kg wet		98	42-146	
Surrogate: Tetrachloro-m-xylene					ug/kg wet		85	37-136	
Polychlorinated Biphenyls by EPA Method 8082									
Aroclor 1016 [2C]	9A13026	164	16.4	3.21	ug/kg wet	168	103	59-154	
Aroclor 1221 [2C]	9A13026		16.4	3.21	ug/kg wet	ND		0-200	
Aroclor 1232 [2C]	9A13026		16.4	3.21	ug/kg wet	ND		0-200	
Aroclor 1242 [2C]	9A13026		16.4	3.56	ug/kg wet	ND		0-200	
Aroclor 1248 [2C]	9A13026		16.4	3.22	ug/kg wet	ND		0-200	
Aroclor 1254 [2C]	9A13026		16.4	3.46	ug/kg wet	ND		0-200	
Aroclor 1260 [2C]	9A13026	164	16.4	3.46	ug/kg wet	152	93	51-179	
Surrogate: Decachlorobiphenyl [2C]					ug/kg wet		75	34-148	
Surrogate: Tetrachloro-m-xylene [2C]					ug/kg wet		83	35-134	
Semivolatile Organics by GC/MS									
2,4,5-Trichlorophenol	9A13076		160	36	ug/kg wet	ND		59-126	
2,4,6-Trichlorophenol	9A13076		160	11	ug/kg wet	ND		59-123	
2,4-Dinitrophenol	9A13076		320	57	ug/kg wet	ND		35-146	

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Project: Watts Engineers Artpark Phase II
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LCS QC DATA

Analyte	Seq/ Batch	Spike Level	MRL	MDL	Units	Result	% REC	% REC Limits	Qualifiers
Semivolatile Organics by GC/MS									
2,4-Dinitrotoluene	9A13076	3200	160	25	ug/kg wet	2900	89	55-125	
2,6-Dinitrotoluene	9A13076		160	40	ug/kg wet	40		66-128	J
2-Chlorophenol	9A13076	3200	160	8.3	ug/kg wet	2300	71	38-120	
2-Nitroaniline	9A13076		320	53	ug/kg wet	ND		61-130	
2-Nitrophenol	9A13076		160	7.5	ug/kg wet	ND		50-120	
3,3'-Dichlorobenzidine	9A13076		160	140	ug/kg wet	ND		48-126	
3-Nitroaniline	9A13076		320	38	ug/kg wet	ND		61-127	
4,6-Dinitro-2-methylphenol	9A13076		320	57	ug/kg wet	ND		49-155	
4-Bromophenyl phenyl ether	9A13076		160	52	ug/kg wet	ND		58-131	
4-Chloro-3-methylphenol	9A13076	3200	160	6.7	ug/kg wet	2800	85	49-125	
4-Chloroaniline	9A13076		160	48	ug/kg wet	ND		49-120	
4-Chlorophenyl phenyl ether	9A13076		160	3.5	ug/kg wet	ND		63-124	
4-Nitroaniline	9A13076		320	18	ug/kg wet	ND		63-128	
4-Nitrophenol	9A13076	3200	320	40	ug/kg wet	3800	116	43-137	
Acenaphthene	9A13076	3200	160	1.9	ug/kg wet	2700	83	53-120	
Acetophenone	9A13076		160	8.4	ug/kg wet	ND		66-120	
Benzaldehyde	9A13076		160	18	ug/kg wet	ND		21-120	
Biphenyl	9A13076		160	10	ug/kg wet	ND		71-120	
Bis(2-chloroethoxy)methane	9A13076		160	8.9	ug/kg wet	ND		61-133	
Bis(2-chloroethyl)ether	9A13076		160	14	ug/kg wet	ND		45-120	
Caprolactam	9A13076		160	71	ug/kg wet	ND		54-133	
Carbazole	9A13076		160	1.9	ug/kg wet	ND		59-129	
Dibenzofuran	9A13076		160	1.7	ug/kg wet	ND		56-120	
Hexachloroethane	9A13076		160	13	ug/kg wet	ND		41-120	
Nitrobenzene	9A13076		160	7.3	ug/kg wet	ND		49-120	
N-Nitrosodi-n-propylamine	9A13076	3200	160	13	ug/kg wet	2500	78	46-120	
N-Nitrosodiphenylamine	9A13076		160	9.0	ug/kg wet	ND		20-119	
Pentachlorophenol	9A13076	3200	320	56	ug/kg wet	2500	76	33-136	
Phenol	9A13076	3200	160	17	ug/kg wet	2200	68	36-120	
Pyrene	9A13076	3200	160	1.1	ug/kg wet	2800	87	51-133	
Surrogate: 2,4,6-Tribromophenol					ug/kg wet		84	39-146	
Surrogate: 2-Fluorobiphenyl					ug/kg wet		82	37-120	
Surrogate: 2-Fluorophenol					ug/kg wet		71	18-120	
Surrogate: Nitrobenzene-d5					ug/kg wet		86	34-132	
Surrogate: Phenol-d5					ug/kg wet		75	11-120	
Surrogate: p-Terphenyl-d14					ug/kg wet		75	58-147	
Volatile Organic Compounds by EPA 8260B									
1,1,1-Trichloroethane	9A12047	50	N/A	NA	ug/kg wet	45.2	90	77-121	
1,1,2,2-Tetrachloroethane	9A12047	50	N/A	NA	ug/kg wet	45.9	92	80-120	
1,1,2-Trichloroethane	9A12047	50	N/A	NA	ug/kg wet	46.0	92	78-122	

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Reported: 02/19/09 16.11

Project: Watts Engineers Artpark Phase II
Project Number: 48000480

LCS QC DATA

Analyte	Seq/ Batch	Spike Level	MRL	MDL	Units	Result	% REC	% REC Limits	Qualifiers
<u>Volatile Organic Compounds by EPA 8260B</u>									
1,1,2-Trichlorotrifluoroethane	9A12047	50	N/A	NA	ug/kg wet	43.8	88	67-144	
1,1-Dichloroethane	9A12047	50	N/A	NA	ug/kg wet	44.2	88	79-126	
1,1-Dichloroethene	9A12047	50	N/A	NA	ug/kg wet	42.4	85	70-142	
1,2,4-Trichlorobenzene	9A12047	50	N/A	NA	ug/kg wet	39.1	78	73-120	
1,2-Dibromo-3-chloropropane	9A12047	50	N/A	NA	ug/kg wet	45.5	91	66-122	
1,2-Dibromoethane (EDB)	9A12047	50	N/A	NA	ug/kg wet	45.9	92	78-120	
1,2-Dichlorobenzene	9A12047	50	N/A	NA	ug/kg wet	42.3	85	82-114	
1,2-Dichloroethane	9A12047	50	N/A	NA	ug/kg wet	45.7	91	77-122	
1,2-Dichloropropane	9A12047	50	N/A	NA	ug/kg wet	45.0	90	81-119	
1,3-Dichlorobenzene	9A12047	50	N/A	NA	ug/kg wet	41.0	82	82-114	
1,4-Dichlorobenzene	9A12047	50	N/A	NA	ug/kg wet	41.0	82	82-113	
2-Butanone (MEK)	9A12047	250	N/A	NA	ug/kg wet	230	92	70-134	
2-Hexanone	9A12047	250	N/A	NA	ug/kg wet	233	93	72-130	
4-Methyl-2-pentanone (MIBK)	9A12047	250	N/A	NA	ug/kg wet	232	93	74-128	
Acetone	9A12047	250	N/A	NA	ug/kg wet	242	97	61-137	
Benzene	9A12047	50	N/A	NA	ug/kg wet	44.9	90	79-127	
Bromodichloromethane	9A12047	50	N/A	NA	ug/kg wet	46.6	93	80-122	
Bromoform	9A12047	50	N/A	NA	ug/kg wet	45.6	91	68-126	
Bromomethane	9A12047	50	N/A	NA	ug/kg wet	46.0	92	43-151	
Carbon disulfide	9A12047	50	N/A	NA	ug/kg wet	44.4	89	64-131	
Carbon Tetrachloride	9A12047	50	N/A	NA	ug/kg wet	45.3	91	75-123	
Chlorobenzene	9A12047	50	N/A	NA	ug/kg wet	43.9	88	79-118	
Chlorodibromomethane	9A12047	50	N/A	NA	ug/kg wet	48.0	96	76-125	
Chloroethane	9A12047	50	N/A	NA	ug/kg wet	42.3	85	69-135	
Chloroform	9A12047	50	N/A	NA	ug/kg wet	45.9	92	80-118	
Chloromethane	9A12047	50	N/A	NA	ug/kg wet	35.1	70	63-127	
cis-1,2-Dichloroethene	9A12047	50	N/A	NA	ug/kg wet	45.9	92	81-117	
cis-1,3-Dichloropropene	9A12047	50	N/A	NA	ug/kg wet	46.7	93	82-120	
Cyclohexane	9A12047	50	N/A	NA	ug/kg wet	43.7	87	70-130	
Dichlorodifluoromethane	9A12047	50	N/A	NA	ug/kg wet	26.0	52	57-142	L2
Ethylbenzene	9A12047	50	N/A	NA	ug/kg wet	44.5	89	83-120	
Isopropylbenzene	9A12047	50	N/A	NA	ug/kg wet	43.6	87	72-120	
Methyl Acetate	9A12047	50	N/A	NA	ug/kg wet	50.8	102	60-140	
Methyl tert-Butyl Ether	9A12047	50	N/A	NA	ug/kg wet	48.0	96	74-129	
Methylcyclohexane	9A12047	50	N/A	NA	ug/kg wet	44.1	88	74-125	
Methylene Chloride	9A12047	50	N/A	NA	ug/kg wet	44.9	90	61-127	
Styrene	9A12047	50	N/A	NA	ug/kg wet	48.0	96	80-116	
Tetrachloroethene	9A12047	50	N/A	NA	ug/kg wet	43.1	86	76-125	
Toluene	9A12047	50	N/A	NA	ug/kg wet	43.1	86	74-128	

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Received: 01/08/09
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Project: Watts Engineers Artpark Phase II
Project Number: 48000480

LCS QC DATA

Analyte	Seq/ Batch	Spike Level	MRL	MDL	Units	Result	% REC	% REC Limits	Qualifiers
Volatile Organic Compounds by EPA 8260B									
trans-1,2-Dichloroethene	9A12047	50	N/A	NA	ug/kg wet	44.8	90	78-126	
trans-1,3-Dichloropropene	9A12047	50	N/A	NA	ug/kg wet	46.5	93	80-119	
Trichloroethene	9A12047	50	N/A	NA	ug/kg wet	44.6	89	79-121	
Trichlorofluoromethane	9A12047	50	N/A	NA	ug/kg wet	40.4	81	65-146	
Vinyl chloride	9A12047	50	N/A	NA	ug/kg wet	38.7	77	67-127	
Xylenes, total	9A12047	150	N/A	NA	ug/kg wet	132	88	82-120	
<i>Surrogate: 1,2-Dichloroethane-d4</i>					ug/kg wet		97	61-136	
<i>Surrogate: 4-Bromofluorobenzene</i>					ug/kg wet		97	72-126	
<i>Surrogate: Toluene-d8</i>					ug/kg wet		101	71-125	

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LCS DUPLICATE QC DATA

Analyte	Seq/ Batch	Spike Level	MRL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Qualifiers
<u>Organochlorine Pesticides by EPA Method 8081A</u>											
4,4'-DDD	9A11011	16.4	1.64	0.319	ug/kg wet	16.5	101	55-129	5	50	
4,4'-DDE	9A11011	16.4	1.64	0.473	ug/kg wet	15.0	91	59-120	5	50	
4,4'-DDT	9A11011	16.4	1.64	0.374	ug/kg wet	16.0	97	47-145	8	50	
Aldrin	9A11011	16.4	1.64	1.03	ug/kg wet	12.9	79	35-120	6	50	
alpha-BHC	9A11011	16.4	1.64	0.931	ug/kg wet	13.0	79	49-120	1	50	
alpha-Chlordane	9A11011	16.4	1.64	0.816	ug/kg wet	9.83	60	55-120	34	50	
beta-BHC	9A11011	16.4	1.64	1.19	ug/kg wet	14.0	86	56-120	0	50	
delta-BHC	9A11011	16.4	1.64	0.393	ug/kg wet	13.7	84	45-123	1	50	
Dieldrin	9A11011	16.4	1.64	0.393	ug/kg wet	14.7	90	57-120	0	50	
Endosulfan I	9A11011	16.4	1.64	0.631	ug/kg wet	14.1	86	29-125	1	50	
Endosulfan II	9A11011	16.4	1.64	0.295	ug/kg wet	16.2	99	39-121	7	50	
Endosulfan sulfate	9A11011	16.4	1.64	0.306	ug/kg wet	15.1	92	43-120	1	50	
Endrin	9A11011	16.4	1.64	0.531	ug/kg wet	14.9	91	54-127	2	50	
Endrin aldehyde	9A11011	16.4	1.64	0.669	ug/kg wet	15.9	97	33-120	1	50	
gamma-BHC (Lindane)	9A11011	16.4	1.64	0.905	ug/kg wet	13.3	81	50-120	1	50	
gamma-Chlordane	9A11011	16.4	1.64	0.225	ug/kg wet	14.1	86	61-120	1	50	
Heptachlor	9A11011	16.4	1.64	0.816	ug/kg wet	13.8	84	47-120	0	50	
Heptachlor epoxide	9A11011	16.4	1.64	0.423	ug/kg wet	14.9	91	44-122	1	50	
Methoxychlor	9A11011	16.4	1.64	0.438	ug/kg wet	14.3	87	46-152	1	50	
<i>Surrogate: Decachlorobiphenyl</i>					ug/kg wet		101	42-146			
<i>Surrogate: Tetrachloro-m-xylene</i>					ug/kg wet		85	37-136			
<u>Polychlorinated Biphenyls by EPA Method 8082</u>											
Aroclor 1016 [2C]	9A13026	164	16.4	3.21	ug/kg wet	168	102	59-154	1	50	
Aroclor 1221 [2C]	9A13026		16.4	3.21	ug/kg wet	ND		0-200		200	
Aroclor 1232 [2C]	9A13026		16.4	3.21	ug/kg wet	ND		0-200		200	
Aroclor 1242 [2C]	9A13026		16.4	3.56	ug/kg wet	ND		0-200		200	
Aroclor 1248 [2C]	9A13026		16.4	3.22	ug/kg wet	ND		0-200		200	
Aroclor 1254 [2C]	9A13026		16.4	3.46	ug/kg wet	ND		0-200		200	
Aroclor 1260 [2C]	9A13026	164	16.4	3.46	ug/kg wet	150	91	51-179	2	50	
<i>Surrogate: Decachlorobiphenyl [2C]</i>					ug/kg wet		74	34-148			
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>					ug/kg wet		81	35-134			

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Reported: 02/19/09 16:11

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Project Number: 48000480

MATRIX SPIKE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	MRL	MDL	Units	Result	% REC	% REC Limits	Qualifiers
General Chemistry Parameters										
QC Source Sample: RSA0351-07										
Cyanide	9A14018	ND	12.4	1.24	1.08	mg/kg dry	ND		85-115	M8
Semivolatile Organics by GC/MS										
QC Source Sample: RSA0240-09										
2,4,5-Trichlorophenol	9A13076	ND		1100	240	ug/kg dry	ND		59-126	
2,4,6-Trichlorophenol	9A13076	ND		1100	72	ug/kg dry	ND		59-123	
2,4-Dinitrophenol	9A13076	ND		2100	380	ug/kg dry	ND		35-146	
2,4-Dinitrotoluene	9A13076	ND	4300	1100	170	ug/kg dry	2500	58	55-125	
2,6-Dinitrotoluene	9A13076	ND		1100	270	ug/kg dry	ND		66-128	
2-Chlorophenol	9A13076	ND	4300	1100	55	ug/kg dry	2400	55	38-120	
2-Nitroaniline	9A13076	ND		2100	350	ug/kg dry	ND		61-130	
2-Nitrophenol	9A13076	ND		1100	50	ug/kg dry	ND		50-120	
3,3'-Dichlorobenzidine	9A13076	ND		1100	950	ug/kg dry	ND		48-126	
3-Nitroaniline	9A13076	ND		2100	250	ug/kg dry	ND		61-127	
4,6-Dinitro-2-methylphenol	9A13076	ND		2100	380	ug/kg dry	ND		49-155	
4-Bromophenyl phenyl ether	9A13076	ND		1100	350	ug/kg dry	ND		58-131	
1-Chloro-3-methylphenol	9A13076	ND	4300	1100	45	ug/kg dry	2900	68	49-125	
4-Chloroaniline	9A13076	ND		1100	320	ug/kg dry	ND		49-120	
4-Chlorophenyl phenyl ether	9A13076	ND		1100	23	ug/kg dry	ND		63-124	
4-Nitroaniline	9A13076	ND		2100	120	ug/kg dry	ND		63-128	
4-Nitrophenol	9A13076	ND	4300	2100	260	ug/kg dry	4100	96	43-137	
Acenaphthene	9A13076	ND	4300	1100	13	ug/kg dry	3000	69	53-120	
Acetophenone	9A13076	ND		1100	56	ug/kg dry	ND		66-120	
Benzaldehyde	9A13076	ND		1100	120	ug/kg dry	ND		21-120	
Biphenyl	9A13076	ND		1100	68	ug/kg dry	ND		71-120	
Bis(2-chloroethoxy)methane	9A13076	ND		1100	59	ug/kg dry	ND		61-133	
Bis(2-chloroethyl)ether	9A13076	ND		1100	94	ug/kg dry	ND		45-120	
Caprolactam	9A13076	ND		1100	470	ug/kg dry	ND		54-133	
Carbazole	9A13076	ND		1100	13	ug/kg dry	210		59-129	J
Dibenzofuran	9A13076	ND		1100	11	ug/kg dry	ND		56-120	
Hexachloroethane	9A13076	ND		1100	84	ug/kg dry	ND		41-120	
Nitrobenzene	9A13076	ND		1100	48	ug/kg dry	ND		49-120	
N-Nitrosodi-n-propylamine	9A13076	ND	4300	1100	86	ug/kg dry	2300	54	46-120	
N-Nitrosodiphenylamine	9A13076	ND		1100	59	ug/kg dry	ND		20-119	
Pentachlorophenol	9A13076	ND	4300	2100	370	ug/kg dry	3300	78	33-136	
Phenol	9A13076	ND	4300	1100	110	ug/kg dry	2300	53	36-120	
Pyrene	9A13076	130	4300	1100	7.0	ug/kg dry	3500	79	51-133	
<i>Surrogate: 2,4,6-Tribromophenol</i>						ug/kg dry		62	39-146	
<i>Surrogate: 2-Fluorobiphenyl</i>						ug/kg dry		66	37-120	
<i>Surrogate: 2-Fluorophenol</i>						ug/kg dry		52	18-120	
<i>Surrogate: Nitrobenzene-d5</i>						ug/kg dry		66	34-132	

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Work Order: RSA0235
Project: Watts Engineers Artpark Phase II
Project Number: 48000480

Received: 01/08/09
Reported: 02/19/09 16:11

MATRIX SPIKE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	MRL	MDL	Units	Result	% REC	% REC Limits	Qualifiers
Semivolatile Organics by GC/MS										
QC Source Sample: RSA0240-09										
Surrogate: Phenol-d5						ug/kg dry		58	11-120	
Surrogate: p-Terphenyl-d14						ug/kg dry		49	58-147	Z6
Total Metals by SW 846 Series Methods										
QC Source Sample: RSA0232-08										
Aluminum	9A14015	3170	4170	20.9	0.0492	mg/kg dry	6820	87	75-125	
Antimony	9A14015	0.855	83.4	31.3	0.0114	mg/kg dry	60.0	71	75-125	M1
Arsenic	9A14015	12.7	83.4	4.17	0.00772	mg/kg dry	80.5	81	75-125	
Barium	9A14015	81.5	83.4	1.04	0.000584	mg/kg dry	157	90	75-125	
Beryllium	9A14015	0.517	83.4	0.417	0.000688	mg/kg dry	71.0	85	75-125	
Cadmium	9A14015	2.43	83.4	0.417	0.000688	mg/kg dry	72.4	84	75-125	
Calcium	9A14015	1620	4170	104	0.209	mg/kg dry	5060	82	75-125	
Chromium	9A14015	41.0	83.4	1.04	0.00184	mg/kg dry	109	81	75-125	
Cobalt	9A14015	2.08	83.4	1.04	0.00221	mg/kg dry	72.7	85	75-125	
Copper	9A14015	26.7	83.4	2.09	0.00263	mg/kg dry	96.0	83	75-125	
Iron	9A14015	17100	4170	20.9	0.0403	mg/kg dry	17800	16	75-125	A-01
Lead	9A14015	176	83.4	2.09	0.00605	mg/kg dry	161	-18	75-125	M1
Magnesium	9A14015	492	4170	41.7	0.0882	mg/kg dry	4030	85	75-125	
Manganese	9A14015	222	83.4	0.417	0.000501	mg/kg dry	270	57	75-125	M1
Nickel	9A14015	8.77	83.4	1.04	0.00215	mg/kg dry	79.2	84	75-125	
Potassium	9A14015	182	4170	62.6	0.104	mg/kg dry	3790	87	75-125	
Selenium	9A14015	1.89	83.4	8.34	0.0127	mg/kg dry	65.2	76	75-125	M1
Silver	9A14015	0.0407	20.9	1.04	0.00265	mg/kg dry	17.7	85	75-125	
Sodium	9A14015	94.0	4170	292	0.707	mg/kg dry	3660	85	75-125	
Thallium	9A14015	12.4	83.4	12.5	0.0123	mg/kg dry	80.8	82	75-125	
Vanadium	9A14015	82.6	83.4	1.04	0.00204	mg/kg dry	147	78	75-125	
Zinc	9A14015	52.2	83.4	4.17	0.00751	mg/kg dry	118	78	75-125	
QC Source Sample: RSA0235-01										
Mercury	9A15039	1.04	0.494	0.148	0.0600	mg/kg dry	1.21	35	80-120	M1
Volatile Organic Compounds by EPA 8260B										
QC Source Sample: RSA0166-03										
1,1,1-Trichloroethane	9A12047	ND	50	N/A	NA	ug/kg dry	44.3	89	77-121	
1,1,2,2-Tetrachloroethane	9A12047	ND	50	N/A	NA	ug/kg dry	36.0	72	80-120	M1
1,1,2-Trichloroethane	9A12047	ND	50	N/A	NA	ug/kg dry	40.0	80	78-122	
1,1,2-Trichlorotrifluoroethane	9A12047	ND	50	N/A	NA	ug/kg dry	36.9	74	67-144	
1,1-Dichloroethane	9A12047	ND	50	N/A	NA	ug/kg dry	44.3	89	79-126	
1,1-Dichloroethene	9A12047	ND	50	N/A	NA	ug/kg dry	42.3	85	70-142	
1,2,4-Trichlorobenzene	9A12047	ND	50	N/A	NA	ug/kg dry	11.3	23	73-120	M1
1,2-Dibromo-3-chloropropane	9A12047	ND	50	N/A	NA	ug/kg dry	31.6	63	66-122	M1
1,2-Dibromoethane (EDB)	9A12047	ND	50	N/A	NA	ug/kg dry	38.2	76	78-120	M1

Watts Engineers
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Buffalo, NY 14226

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MATRIX SPIKE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	MRL	MDL	Units	Result	% REC	% REC Limits	Qualifiers
Volatile Organic Compounds by EPA 8260B										
QC Source Sample: RSA0166-03										
1,2-Dichlorobenzene	9A12047	ND	50	N/A	NA	ug/kg dry	22.6	45	82-114	M1
1,2-Dichloroethane	9A12047	ND	50	N/A	NA	ug/kg dry	43.5	87	77-122	
1,2-Dichloropropane	9A12047	ND	50	N/A	NA	ug/kg dry	41.3	83	81-119	
1,3-Dichlorobenzene	9A12047	ND	50	N/A	NA	ug/kg dry	21.3	43	82-114	M1
1,4-Dichlorobenzene	9A12047	ND	50	N/A	NA	ug/kg dry	21.8	44	82-113	M1
2-Butanone (MEK)	9A12047	ND	250	N/A	NA	ug/kg dry	204	82	70-134	
2-Hexanone	9A12047	ND	250	N/A	NA	ug/kg dry	194	78	72-130	
4-Methyl-2-pentanone (MIBK)	9A12047	ND	250	N/A	NA	ug/kg dry	209	83	74-128	
Acetone	9A12047	ND	250	N/A	NA	ug/kg dry	223	89	61-137	
Benzene	9A12047	ND	50	N/A	NA	ug/kg dry	41.5	83	79-127	
Bromodichloromethane	9A12047	ND	50	N/A	NA	ug/kg dry	42.2	84	80-122	
Bromoform	9A12047	ND	50	N/A	NA	ug/kg dry	36.2	72	68-126	
Bromomethane	9A12047	ND	50	N/A	NA	ug/kg dry	57.6	115	43-151	
Carbon disulfide	9A12047	ND	50	N/A	NA	ug/kg dry	40.7	81	64-131	
Carbon Tetrachloride	9A12047	ND	50	N/A	NA	ug/kg dry	40.7	81	75-123	
Chlorobenzene	9A12047	ND	50	N/A	NA	ug/kg dry	33.1	66	79-118	M1
Chlorodibromomethane	9A12047	ND	50	N/A	NA	ug/kg dry	39.5	79	76-125	
Chloroethane	9A12047	ND	50	N/A	NA	ug/kg dry	50.2	100	69-135	
Chloroform	9A12047	ND	50	N/A	NA	ug/kg dry	44.3	89	80-118	
Chloromethane	9A12047	ND	50	N/A	NA	ug/kg dry	33.7	67	63-127	
cis-1,2-Dichloroethene	9A12047	ND	50	N/A	NA	ug/kg dry	42.8	86	81-117	
cis-1,3-Dichloropropene	9A12047	ND	50	N/A	NA	ug/kg dry	39.9	80	82-120	M1
Cyclohexane	9A12047	ND	50	N/A	NA	ug/kg dry	26.0	52	70-130	M1
Dichlorodifluoromethane	9A12047	ND	50	N/A	NA	ug/kg dry	25.7	51	57-142	L2
Ethylbenzene	9A12047	ND	50	N/A	NA	ug/kg dry	31.4	63	83-120	M1
Isopropylbenzene	9A12047	ND	50	N/A	NA	ug/kg dry	25.8	52	72-120	M1
Methyl Acetate	9A12047	ND	50	N/A	NA	ug/kg dry	74.6	149	60-140	M1
Methyl tert-Butyl Ether	9A12047	ND	50	N/A	NA	ug/kg dry	46.2	92	74-129	
Methylcyclohexane	9A12047	ND	50	N/A	NA	ug/kg dry	18.2	36	74-125	M1
Methylene Chloride	9A12047	5.73	50	N/A	NA	ug/kg dry	52.9	94	61-127	
Styrene	9A12047	ND	50	N/A	NA	ug/kg dry	33.0	66	80-116	M1
Tetrachloroethene	9A12047	ND	50	N/A	NA	ug/kg dry	30.2	60	76-125	M1
Toluene	9A12047	ND	50	N/A	NA	ug/kg dry	35.4	71	74-128	M1
trans-1,2-Dichloroethene	9A12047	ND	50	N/A	NA	ug/kg dry	42.4	85	78-126	
trans-1,3-Dichloropropene	9A12047	ND	50	N/A	NA	ug/kg dry	36.8	74	80-119	M1
Trichloroethene	9A12047	ND	50	N/A	NA	ug/kg dry	40.5	81	79-121	
Trichlorofluoromethane	9A12047	1.62	50	N/A	NA	ug/kg dry	44.2	85	65-146	
Vinyl chloride	9A12047	ND	50	N/A	NA	ug/kg dry	37.6	75	67-127	
Xylenes, total	9A12047	ND	150	N/A	NA	ug/kg dry	91.1	61	82-120	M1

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Project: Watts Engineers Artpark Phase II
Project Number: 48000480

MATRIX SPIKE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	MRL	MDL	Units	Result	% REC	% REC Limits	Qualifiers
<u>Volatile Organic Compounds by EPA 8260B</u>										
QC Source Sample: RSA0166-03										
Surrogate: 1,2-Dichloroethane-d4						ug/kg dry		104	61-136	
Surrogate: 4-Bromofluorobenzene						ug/kg dry		100	72-126	
Surrogate: Toluene-d8						ug/kg dry		104	71-125	

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MATRIX SPIKE DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	MRL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Qualifiers
Semivolatile Organics by GC/MS												
QC Source Sample: RSA0240-09												
2,4,5-Trichlorophenol	9A13076	ND		1100	240	ug/kg dry	ND		59-126		18	
2,4,6-Trichlorophenol	9A13076	ND		1100	71	ug/kg dry	ND		59-123		19	
2,4-Dinitrophenol	9A13076	ND		2100	380	ug/kg dry	ND		35-146		22	
2,4-Dinitrotoluene	9A13076	ND	4300	1100	170	ug/kg dry	2800	65	55-125	10	20	
2,6-Dinitrotoluene	9A13076	ND		1100	260	ug/kg dry	ND		66-128		15	
2-Chlorophenol	9A13076	ND	4300	1100	55	ug/kg dry	2500	59	38-120	6	25	
2-Nitroaniline	9A13076	ND		2100	350	ug/kg dry	ND		61-130		15	
2-Nitrophenol	9A13076	ND		1100	49	ug/kg dry	ND		50-120		18	
3,3'-Dichlorobenzidine	9A13076	ND		1100	950	ug/kg dry	ND		48-126		25	
3-Nitroaniline	9A13076	ND		2100	250	ug/kg dry	ND		61-127		19	
4,6-Dinitro-2-methylphenol	9A13076	ND		2100	370	ug/kg dry	ND		49-155		15	
4-Bromophenyl phenyl ether	9A13076	ND		1100	340	ug/kg dry	ND		58-131		15	
4-Chloro-3-methylphenol	9A13076	ND	4300	1100	44	ug/kg dry	3200	74	49-125	8	27	
4-Chloroaniline	9A13076	ND		1100	320	ug/kg dry	ND		49-120		22	
4-Chlorophenyl phenyl ether	9A13076	ND		1100	23	ug/kg dry	ND		63-124		16	
1-Nitroaniline	9A13076	ND		2100	120	ug/kg dry	ND		63-128		24	
4-Nitrophenol	9A13076	ND	4300	2100	260	ug/kg dry	4600	108	43-137	11	25	
Acenaphthene	9A13076	ND	4300	1100	13	ug/kg dry	3100	73	53-120	4	35	
Acetophenone	9A13076	ND		1100	55	ug/kg dry	ND		66-120		20	
Benzaldehyde	9A13076	ND		1100	120	ug/kg dry	ND		21-120		20	
Biphenyl	9A13076	ND		1100	67	ug/kg dry	ND		71-120		20	
Bis(2-chloroethoxy)methane	9A13076	ND		1100	59	ug/kg dry	ND		61-133		17	
Bis(2-chloroethyl)ether	9A13076	ND		1100	93	ug/kg dry	ND		45-120		21	
Caprolactam	9A13076	ND		1100	470	ug/kg dry	ND		54-133		20	
Carbazole	9A13076	ND		1100	12	ug/kg dry	ND		59-129		20	
Dibenzofuran	9A13076	ND		1100	11	ug/kg dry	ND		56-120		15	
Hexachloroethane	9A13076	ND		1100	84	ug/kg dry	ND		41-120		46	
Nitrobenzene	9A13076	ND		1100	48	ug/kg dry	ND		49-120		24	
N-Nitrosodi-n-propylamine	9A13076	ND	4300	1100	86	ug/kg dry	2700	63	46-120	16	31	
N-Nitrosodiphenylamine	9A13076	ND		1100	59	ug/kg dry	ND		20-119		15	
Pentachlorophenol	9A13076	ND	4300	2100	370	ug/kg dry	3600	84	33-136	7	35	
Phenol	9A13076	ND	4300	1100	110	ug/kg dry	2500	59	36-120	11	35	
Pyrene	9A13076	130	4300	1100	7.0	ug/kg dry	3000	66	51-133	17	35	
Surrogate: 2,4,6-Tribromophenol						ug/kg dry		64	39-146			
Surrogate: 2-Fluorobiphenyl						ug/kg dry		68	37-120			
Surrogate: 2-Fluorophenol						ug/kg dry		61	18-120			
Surrogate: Nitrobenzene-d5						ug/kg dry		72	34-132			
Surrogate: Phenol-d5						ug/kg dry		65	11-120			
Surrogate: p-Terphenyl-d14						ug/kg dry		53	58-147			Z6

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MATRIX SPIKE DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	MRL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Qualifiers
Total Metals by SW 846 Series Methods												
QC Source Sample: RSA0232-08												
Aluminum	9A14015	3170	3830	19.1	0.0452	mg/kg dry	6590	89	75-125	3	20	
Antimony	9A14015	0.855	76.5	28.7	0.0105	mg/kg dry	55.4	71	75-125	8	20	M1
Arsenic	9A14015	12.7	76.5	3.83	0.00708	mg/kg dry	77.7	85	75-125	4	20	
Barium	9A14015	81.5	76.5	0.957	0.000536	mg/kg dry	152	92	75-125	3	20	
Beryllium	9A14015	0.517	76.5	0.383	0.000631	mg/kg dry	67.6	88	75-125	5	20	
Cadmium	9A14015	2.43	76.5	0.383	0.000631	mg/kg dry	69.0	87	75-125	5	20	
Calcium	9A14015	1620	3830	95.7	0.191	mg/kg dry	4970	87	75-125	2	20	
Chromium	9A14015	41.0	76.5	0.957	0.00168	mg/kg dry	102	80	75-125	6	20	
Cobalt	9A14015	2.08	76.5	0.957	0.00203	mg/kg dry	69.3	88	75-125	5	20	
Copper	9A14015	26.7	76.5	1.91	0.00241	mg/kg dry	91.9	85	75-125	4	20	
Iron	9A14015	17100	3830	19.1	0.0369	mg/kg dry	17600	12	75-125	1	20	A-01
Lead	9A14015	176	76.5	1.91	0.00555	mg/kg dry	147	-38	75-125	9	20	M1
Magnesium	9A14015	492	3830	38.3	0.0809	mg/kg dry	3850	88	75-125	5	20	
Manganese	9A14015	222	76.5	0.383	0.000459	mg/kg dry	263	53	75-125	3	20	M1
Nickel	9A14015	8.77	76.5	0.957	0.00197	mg/kg dry	75.7	87	75-125	4	20	
Potassium	9A14015	182	3830	57.4	0.0957	mg/kg dry	3580	89	75-125	6	20	
Selenium	9A14015	1.89	76.5	7.65	0.0117	mg/kg dry	57.6	73	75-125	12	20	M1
Silver	9A14015	0.0407	19.1	0.957	0.00243	mg/kg dry	16.9	88	75-125	5	20	
Sodium	9A14015	94.0	3830	268	0.649	mg/kg dry	3460	88	75-125	6	20	
Thallium	9A14015	12.4	76.5	11.5	0.0112	mg/kg dry	78.3	86	75-125	3	20	
Vanadium	9A14015	82.6	76.5	0.957	0.00187	mg/kg dry	146	83	75-125	1	20	
Zinc	9A14015	52.2	76.5	3.83	0.00689	mg/kg dry	114	80	75-125	3	20	
QC Source Sample: RSA0235-01												
Mercury	9A15039	1.04	0.467	0.140	0.0568	mg/kg dry	1.51	102	80-120	22	20	R
Volatile Organic Compounds by EPA 8260B												
QC Source Sample: RSA0166-03												
1,1,1-Trichloroethane	9A12047	ND	50	N/A	NA	ug/kg dry	39.1	78	77-121	12	20	
1,1,2,2-Tetrachloroethane	9A12047	ND	50	N/A	NA	ug/kg dry	33.8	68	80-120	6	20	M1
1,1,2-Trichloroethane	9A12047	ND	50	N/A	NA	ug/kg dry	38.0	76	78-122	5	20	M1
1,1,2-Trichlorotrifluoroethane	9A12047	ND	50	N/A	NA	ug/kg dry	33.0	66	67-144	11	20	M1
1,1-Dichloroethane	9A12047	ND	50	N/A	NA	ug/kg dry	40.1	80	79-126	10	20	
1,1-Dichloroethene	9A12047	ND	50	N/A	NA	ug/kg dry	37.9	76	70-142	11	22	
1,2,4-Trichlorobenzene	9A12047	ND	50	N/A	NA	ug/kg dry	10.6	21	73-120	7	20	M1
1,2-Dibromo-3-chloropropane	9A12047	ND	50	N/A	NA	ug/kg dry	31.5	63	66-122	0	20	M1
1,2-Dibromoethane (EDB)	9A12047	ND	50	N/A	NA	ug/kg dry	35.7	71	78-120	7	20	M1
1,2-Dichlorobenzene	9A12047	ND	50	N/A	NA	ug/kg dry	21.0	42	82-114	8	20	M1
1,2-Dichloroethane	9A12047	ND	50	N/A	NA	ug/kg dry	39.1	78	77-122	11	20	
1,2-Dichloropropane	9A12047	ND	50	N/A	NA	ug/kg dry	37.7	75	81-119	9	20	M1
1,3-Dichlorobenzene	9A12047	ND	50	N/A	NA	ug/kg dry	20.2	40	82-114	5	20	M1

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MATRIX SPIKE DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	MRL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Qualifiers
Volatile Organic Compounds by EPA 8260B												
QC Source Sample: RSA0166-03												
1,4-Dichlorobenzene	9A12047	ND	50	N/A	NA	ug/kg dry	20.7	41	82-113	5	20	M1
2-Butanone (MEK)	9A12047	ND	250	N/A	NA	ug/kg dry	190	76	70-134	7	20	
2-Hexanone	9A12047	ND	250	N/A	NA	ug/kg dry	186	74	72-130	4	20	
4-Methyl-2-pentanone (MIBK)	9A12047	ND	250	N/A	NA	ug/kg dry	202	81	74-128	3	20	
Acetone	9A12047	ND	250	N/A	NA	ug/kg dry	211	84	61-137	6	15	
Benzene	9A12047	ND	50	N/A	NA	ug/kg dry	38.2	76	79-127	8	20	M1
Bromodichloromethane	9A12047	ND	50	N/A	NA	ug/kg dry	38.3	77	80-122	10	20	M1
Bromoform	9A12047	ND	50	N/A	NA	ug/kg dry	34.6	69	68-126	5	20	
Bromomethane	9A12047	ND	50	N/A	NA	ug/kg dry	51.4	103	43-151	12	20	
Carbon disulfide	9A12047	ND	50	N/A	NA	ug/kg dry	36.9	74	64-131	10	20	
Carbon Tetrachloride	9A12047	ND	50	N/A	NA	ug/kg dry	36.2	72	75-123	12	20	M1
Chlorobenzene	9A12047	ND	50	N/A	NA	ug/kg dry	30.8	62	79-118	7	25	M1
Chlorodibromomethane	9A12047	ND	50	N/A	NA	ug/kg dry	38.2	76	76-125	3	20	
Chloroethane	9A12047	ND	50	N/A	NA	ug/kg dry	45.3	91	69-135	10	20	
Chloroform	9A12047	ND	50	N/A	NA	ug/kg dry	40.2	80	80-118	10	20	
Chloromethane	9A12047	ND	50	N/A	NA	ug/kg dry	30.5	61	63-127	10	20	M1
cis-1,2-Dichloroethene	9A12047	ND	50	N/A	NA	ug/kg dry	38.1	76	81-117	12	20	M1
cis-1,3-Dichloropropene	9A12047	ND	50	N/A	NA	ug/kg dry	36.9	74	82-120	8	20	M1
Cyclohexane	9A12047	ND	50	N/A	NA	ug/kg dry	24.5	49	70-130	6	20	M1
Dichlorodifluoromethane	9A12047	ND	50	N/A	NA	ug/kg dry	23.1	46	57-142	11	20	L2
Ethylbenzene	9A12047	ND	50	N/A	NA	ug/kg dry	29.3	59	83-120	7	20	M1
Isopropylbenzene	9A12047	ND	50	N/A	NA	ug/kg dry	23.8	48	72-120	8	20	M1
Methyl Acetate	9A12047	ND	50	N/A	NA	ug/kg dry	67.4	135	60-140	10	20	
Methyl tert-Butyl Ether	9A12047	ND	50	N/A	NA	ug/kg dry	43.1	86	74-129	7	20	
Methylcyclohexane	9A12047	ND	50	N/A	NA	ug/kg dry	16.8	34	74-125	8	20	M1
Methylene Chloride	9A12047	5.80	50	N/A	NA	ug/kg dry	49.5	87	61-127	7	15	
Styrene	9A12047	ND	50	N/A	NA	ug/kg dry	31.0	62	80-116	6	20	M1
Tetrachloroethene	9A12047	ND	50	N/A	NA	ug/kg dry	28.2	56	76-125	7	20	M1
Toluene	9A12047	ND	50	N/A	NA	ug/kg dry	33.4	67	74-128	6	20	M1
trans-1,2-Dichloroethene	9A12047	ND	50	N/A	NA	ug/kg dry	37.8	76	78-126	11	20	M1
trans-1,3-Dichloropropene	9A12047	ND	50	N/A	NA	ug/kg dry	34.8	70	80-119	6	20	M1
Trichloroethene	9A12047	ND	50	N/A	NA	ug/kg dry	37.1	74	79-121	9	24	M1
Trichlorofluoromethane	9A12047	1.64	50	N/A	NA	ug/kg dry	40.1	77	65-146	10	20	
Vinyl chloride	9A12047	ND	50	N/A	NA	ug/kg dry	33.8	68	67-127	11	20	
Xylenes, total	9A12047	ND	150	N/A	NA	ug/kg dry	85.0	57	82-120	7	20	M1
Surrogate: 1,2-Dichloroethane-d4						ug/kg dry		106	61-136			
Surrogate: 4-Bromofluorobenzene						ug/kg dry		105	72-126			
Surrogate: Toluene-d8						ug/kg dry		109	71-125			

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Work Order: RSA0235

Received: 01/08/09
Reported: 02/19/09 16:11

Project: Watts Engineers Artpark Phase II
Project Number: 48000480

POST SPIKE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	MRL	MDL	Units	Result	% REC	% REC Limits	Qualifiers
Total Metals by SW 846 Series Methods										
QC Source Sample: RSA0232-08										
Aluminum	9A14015	15.2	10.0	N/A	NA	mg/kg dry	34.7	195	80-120	
Antimony	9A14015	0.00410	0.200	N/A	NA	mg/kg dry	0.385	190	80-120	
Arsenic	9A14015	0.0608	0.200	N/A	NA	mg/kg dry	0.444	192	80-120	
Barium	9A14015	0.391	0.200	N/A	NA	mg/kg dry	0.778	194	80-120	
Beryllium	9A14015	0.00248	0.200	N/A	NA	mg/kg dry	0.387	192	80-120	
Cadmium	9A14015	0.0117	0.200	N/A	NA	mg/kg dry	0.395	192	80-120	
Calcium	9A14015	7.77	10.0	N/A	NA	mg/kg dry	27.1	193	80-120	
Chromium	9A14015	0.197	0.200	N/A	NA	mg/kg dry	0.578	191	80-120	
Cobalt	9A14015	0.00999	0.200	N/A	NA	mg/kg dry	0.394	192	80-120	
Copper	9A14015	0.128	0.200	N/A	NA	mg/kg dry	0.508	190	80-120	
Iron	9A14015	82.3	10.0	N/A	NA	mg/kg dry	99.8	175	80-120	
Lead	9A14015	0.845	0.200	N/A	NA	mg/kg dry	1.21	184	80-120	
Magnesium	9A14015	2.36	10.0	N/A	NA	mg/kg dry	21.7	193	80-120	
Manganese	9A14015	1.06	0.200	N/A	NA	mg/kg dry	1.43	184	80-120	
Nickel	9A14015	0.0421	0.200	N/A	NA	mg/kg dry	0.426	192	80-120	
Potassium	9A14015	0.872	10.0	N/A	NA	mg/kg dry	21.0	201	80-120	
Selenium	9A14015	0.00907	0.200	N/A	NA	mg/kg dry	0.385	188	80-120	
Silver	9A14015	0.000195	0.0500	N/A	NA	mg/kg dry	0.0938	187	75-125	
Sodium	9A14015	0.451	10.0	N/A	NA	mg/kg dry	19.7	192	80-120	
Thallium	9A14015	0.0593	0.200	N/A	NA	mg/kg dry	0.443	192	80-120	
Vanadium	9A14015	0.396	0.200	N/A	NA	mg/kg dry	0.776	190	75-125	
Zinc	9A14015	0.250	0.200	N/A	NA	mg/kg dry	0.627	188	80-120	

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Work Order: RSA0235

Received: 01/08/09
Reported: 02/19/09 16:11

Project: Watts Engineers Artpark Phase II
Project Number: 48000480

Analyte	Seq/ Batch	Source Result	Spike Level	MRL	MDL	Units	Result	% REC	% REC Limits	Qualifiers
Total Metals by SW 846 Series Methods										
Aluminum	9A14015		10500	10.0	0.0236	mg/kg wet	8140	78	59.5-141	
Antimony	9A14015		79.2	15.0	0.00548	mg/kg wet	53.6	68	0-207.1	
Arsenic	9A14015		133	2.00	0.00370	mg/kg wet	110	83	80.5-120.3	
Barium	9A14015		226	0.500	0.000280	mg/kg wet	185	82	81.4-118.6	
Beryllium	9A14015		117	0.200	0.000330	mg/kg wet	99.4	85	83.7-116.2	
Cadmium	9A14015		103	0.200	0.000330	mg/kg wet	86.0	83	82.8-116.5	
Calcium	9A14015		9610	50.0	0.100	mg/kg wet	8040	84	83.1-116.5	
Chromium	9A14015		219	0.500	0.000880	mg/kg wet	188	86	81.7-117.8	
Cobalt	9A14015		133	0.500	0.00106	mg/kg wet	111	83	81.2-118	
Copper	9A14015		155	1.00	0.00126	mg/kg wet	132	85	83.2-116.8	
Iron	9A14015		18500	10.0	0.0193	mg/kg wet	13200	72	50.6-149.7	
Lead	9A14015		168	1.00	0.00290	mg/kg wet	141	84	81.5-118.5	
Magnesium	9A14015		4840	20.0	0.0423	mg/kg wet	3970	82	78.7-121.1	
Manganese	9A14015		510	0.200	0.000240	mg/kg wet	426	84	82.5-117.5	
Nickel	9A14015		119	0.500	0.00103	mg/kg wet	102	86	80.4-120.2	
Potassium	9A14015		5300	30.0	0.0500	mg/kg wet	4370	82	73.6-126.4	
Selenium	9A14015		94.1	4.00	0.00610	mg/kg wet	80.5	86	76.8-123.3	
Silver	9A14015		81.2	0.500	0.00127	mg/kg wet	68.1	84	66.3-133	
Sodium	9A14015		798	140	0.339	mg/kg wet	689	86	73.8-126.6	
Thallium	9A14015		152	6.00	0.00588	mg/kg wet	132	87	81.6-119.7	
Vanadium	9A14015		123	0.500	0.000980	mg/kg wet	99.6	81	79.5-120.3	
Zinc	9A14015		280	2.00	0.00360	mg/kg wet	242	87	81.1-119.3	

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Work Order: RSA0235

Received: 01/08/09
Reported: 02/19/09 16:11

Project: Watts Engineers Artpark Phase II
Project Number: 48000480

SERIAL DILUTION QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	MRL	MDL	Units	Result	% REC	% REC Limits	Qualifiers
Total Metals by SW 846 Series Methods										
QC Source Sample: RSA0321-03										
Aluminum	RA92810			1.00	0.118	mg/L	ND			
Antimony	RA92810			0.100	0.0274	mg/L	ND			
Arsenic	RA92810			0.0500	0.0185	mg/L	ND			
Barium	RA92810			0.0100	0.00140	mg/L	0.0272			
Beryllium	RA92810			0.0100	0.00165	mg/L	ND			
Cadmium	RA92810			0.00500	0.00165	mg/L	ND			
Calcium	RA92810			2.50	0.500	mg/L	20.8			
Chromium	RA92810			0.0200	0.00440	mg/L	ND			
Cobalt	RA92810			0.0200	0.00530	mg/L	ND			
Copper	RA92810			0.0100	0.00630	mg/L	ND			
Iron	RA92810			0.250	0.0965	mg/L	1.13			
Lead	RA92810			0.0250	0.0145	mg/L	ND			
Magnesium	RA92810			1.00	0.212	mg/L	6.92			
Manganese	RA92810			0.0150	0.00120	mg/L	0.609			
Nickel	RA92810			0.0500	0.00515	mg/L	ND			
Potassium	RA92810			2.50	0.250	mg/L	3.75			
Selenium	RA92810			0.0750	0.0305	mg/L	ND			
Silver	RA92810			0.0150	0.00635	mg/L	ND			
Sodium	RA92810			5.00	1.70	mg/L	7.38			
Thallium	RA92810			0.100	0.0294	mg/L	ND			
Vanadium	RA92810			0.0250	0.00490	mg/L	ND			
Zinc	RA92810			0.0500	0.0180	mg/L	ND			
QC Source Sample: RSA0333-01										
Aluminum	RA92810			1.00	0.118	mg/L	ND			
Antimony	RA92810			0.100	0.0274	mg/L	ND			
Arsenic	RA92810			0.0500	0.0185	mg/L	ND			
Barium	RA92810			0.0100	0.00140	mg/L	0.0242			
Beryllium	RA92810			0.0100	0.00165	mg/L	ND			
Cadmium	RA92810			0.00500	0.00165	mg/L	ND			
Calcium	RA92810			2.50	0.500	mg/L	5.10			
Chromium	RA92810			0.0200	0.00440	mg/L	ND			
Cobalt	RA92810			0.0200	0.00530	mg/L	ND			
Copper	RA92810			0.0100	0.00630	mg/L	ND			
Iron	RA92810			0.250	0.0965	mg/L	ND			
Lead	RA92810			0.0250	0.0145	mg/L	ND			
Magnesium	RA92810			1.00	0.212	mg/L	3.71			
Manganese	RA92810			0.0150	0.00120	mg/L	0.0128			
Nickel	RA92810			0.0500	0.00515	mg/L	ND			
Potassium	RA92810			2.50	0.250	mg/L	0.501			

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Project: Watts Engineers Artpark Phase II
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SERIAL DILUTION QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	MRL	MDL	Units	Result	% REC	% REC Limits	Qualifiers
Total Metals by SW 846 Series Methods										
QC Source Sample: RSA0333-01										
Selenium	RA92810			0.0750	0.0305	mg/L	ND			
Silver	RA92810			0.0150	0.00635	mg/L	ND			
Sodium	RA92810			5.00	1.70	mg/L	2.98			
Thallium	RA92810			0.100	0.0294	mg/L	ND			
Vanadium	RA92810			0.0250	0.00490	mg/L	ND			
Zinc	RA92810			0.0500	0.0180	mg/L	ND			
QC Source Sample: RSA0232-08										
Aluminum	RA92810	3170		0.977	0.115	mg/L	1580		67	
Antimony	RA92810	0.855		0.0977	0.0268	mg/L	ND			
Arsenic	RA92810	12.7		0.0488	0.0181	mg/L	6.30		67	
Barium	RA92810	81.5		0.00977	0.00137	mg/L	40.9		66	
Beryllium	RA92810	0.517		0.00977	0.00161	mg/L	0.273		62	
Cadmium	RA92810	2.43		0.00488	0.00161	mg/L	1.14		73	
Calcium	RA92810	1620		2.44	0.488	mg/L	861		61	
Chromium	RA92810	41.0		0.0195	0.00430	mg/L	20.4		67	
Cobalt	RA92810	2.08		0.0195	0.00518	mg/L	1.05		66	
Copper	RA92810	26.7		0.00977	0.00615	mg/L	13.4		66	
Iron	RA92810	17100		0.244	0.0942	mg/L	8530		67	
Lead	RA92810	176		0.0244	0.0142	mg/L	89.3		65	
Magnesium	RA92810	492		0.977	0.207	mg/L	276		56	
Manganese	RA92810	222		0.0146	0.00117	mg/L	110		67	
Nickel	RA92810	8.77		0.0488	0.00503	mg/L	4.38		67	
Potassium	RA92810	182		2.44	0.244	mg/L	82.5		75	
Selenium	RA92810	1.89		0.0732	0.0298	mg/L	1.54		21	
Silver	RA92810	0.0407		0.0146	0.00620	mg/L	0.107		90	
Sodium	RA92810	94.0		4.88	1.66	mg/L	40.4		80	
Thallium	RA92810	12.4		0.0977	0.0287	mg/L	7.27		52	
Vanadium	RA92810	82.6		0.0244	0.00479	mg/L	41.4		66	
Zinc	RA92810	52.2		0.0488	0.0176	mg/L	26.1		67	