

SCS ENGINEERS

July 10, 2014
File No. 09213010.31

Mr. Wilbur Mayorga, P.E., Chief
Environmental Monitoring and Restoration Division
Miami-Dade County Department of Regulatory and Economic Resources
701 Northwest 1st Court, 4th Floor
Miami, Florida 33136

Re: Curtis Park (HWR-777)
1901 NW 24 Ave
Miami, Florida

Subject: Site Assessment Report Addendum

Dear Mr. Mayorga:

SCS Engineers (SCS), on behalf of the City of Miami (the City), submits this Site Assessment Report Addendum (SARA) for the referenced site to the Department of Regulatory and Economic Resources, Division of Environmental Resources Management (DERM). SCS previously submitted to DERM a SAR for the site dated April 21, 2014. This SARA provides a response to DERM's comments on the Site Assessment Report (dated April 21, 2014 and submitted by SCS) as well as conclusions and recommendations based upon the supplemental assessment results.

RESPONSE TO DERM COMMENTS

Outlined below, are DERM's comments in italics, as provided in the May 29, 2014 letter (**Attachment A**), followed by our response.

Comment 1. The concentrations of antimony and aluminum in temporary monitoring wells TMW-2 and TMW-3, respectively, exceeds the groundwater cleanup target level; additionally, the concentration of iron in TMW-3 and TMW-4 are inconsistent with the Miami-Dade County background concentration of iron in groundwater. Based on the foregoing, install permanent monitoring wells in the vicinity of the above mentioned temporary wells and sample and analyze groundwater as indicated below:

- *The monitoring well installed in the vicinity of TMW-2 shall be sampled and the groundwater analyzed for antimony.*
- *The monitoring well installed in the vicinity of TMW-3 shall be sampled and the groundwater analyzed for aluminum and iron.*
- *The monitoring well installed in the vicinity of TMW-4 shall be sampled and the groundwater analyzed for iron.*

If resampling confirms groundwater contamination, additional assessment as needed to fully delineate the groundwater plume will be required.



Response 1. On June 3, 2014, under the supervision of SCS, JAEE Drilling, Inc. installed three permanent monitoring wells (MW-1 through MW-3) in the locations of temporary monitoring wells TMW-2 through TMW-4. The wells were installed to a total depth of 14-feet below land surface (bls) and constructed of 1.5-inch PVC with 10-feet of 0.010-inch slotted screen from 4 to 14-feet. Well Construction and Development Logs are provided in **Attachment B**. The well completion reports will be provided under separate cover.

Groundwater samples were collected from wells MW-1 through MW-3 on June 6, 2014 and submitted to a NELAP-accredited laboratory for analysis. Samples were analyzed for antimony, iron and/or aluminum via EPA Method 6010. The analytical results for the groundwater samples are summarized in **Table 1** and depicted on **Figure 1**. Groundwater sampling logs, groundwater laboratory reports, with quality control information and chain-of-custody forms, are provided in **Attachment C**.

Investigation-derived waste (development and purge water) was placed in 55-gallon drums for proper off-site disposal.

Comments 2. Based on the dioxin concentration through the 0-1 foot interval, conduct source removal, with confirmation sampling, in the right-of-way in the area of SB-70. Based on the lead concentration at the 1 to 2 feet interval DERM recommends including the 1 to 2 feet interval in the source removal.

Response 2. SCS is coordinating with the City to schedule the source removal around SB-70 and will provide the details under separate cover.

Comment 3. Offsite delineation is required as follows:

- *Along the eastern property based on the contaminant concentrations documented at soil borings SB-72, SB-73, SB-74, SB-54 and SB-76. Dioxin shall be included as a contaminant of concern for offsite delineation in the vicinity of SB-72.*
- *West of SB-40 and SB-6*
- *Additional offsite delineation is required to the north of soil borings SB-77 (arsenic only) and SB-78 through SB-81*

Response 3. Off-site delineation will be conducted after access agreements are obtained.

Comment 4. Based on the contaminant concentrations at soil boring SB-58 and SB-60 additional delineation, in the direction of the property boundary, is required and shall include analysis for dioxins.

Response 4. The analytical results for the soil samples are summarized in **Table 2** and depicted on **Figures 2** through **4**. Eight borings (SB-82 through SB-88) were advanced along the property boundary to the east, south and west of soil borings SB-58 and SB-60 with no solid waste observed. Soil samples were collected from

0-0.5 and 0.5-2 foot intervals and submitted for laboratory analyses targeting heavy metals (antimony, arsenic, barium, cadmium, copper, iron and lead) via EPA Method 6010. On June 12, 2014, via email correspondence with DERM, SCS proposed soil samples to submit for dioxin analysis. In response on June 19, 2014, DERM recommended analyzing both the 0-0.5 and 0.5-2 foot interval from soil boring SB-83. The dioxin analyses for the samples are pending; the results will be submitted under separate cover.

Soil boring logs, soil laboratory reports, with quality control information and chain-of-custody forms, are provided in **Attachment D**.

Comment 5. The solid waste delineation provided in Figure 8 is inconsistent with the delineation provided in Figure 2. As an example Figure 2 indicates that within Area 3 (playground area) solid waste occurs below 1 foot throughout most of this area; however, based on Figure 8, solid waste occurs at 6 inch throughout most of the area. Similar inconsistencies are noted in other areas. The maps shall be revised as appropriate and included in the next submittal.

Response 5. **Figure 5** is provided to clearly define the area(s) of visible solid waste.

Comment 6. Offsite solid waste delineation is required outside the northeastern property boundary and additional offsite delineation is required to the north of SB-79 through SB-81.

Response 6. Off-site delineation will be conducted after access agreements are obtained.

Comment 7. Provide north/south and east/west cross sections indicating the vertical extent of the solid waste layer. Given the size of the park, more than one cross section maybe required in each direction.

Response 7. **Figures 6 and 6a** depict north/south and east/west vertical cross-sections of the solid waste layer across the site with the exception of the pool area and borings advanced to the east of the baseball field. As shown, the presence of solid waste is observed across the site at varying intervals predominantly from 1 foot to 4-foot bls with intermittent pockets of waste at the 0-0.5 foot interval.

Comment 8. Provide concentration contour for each of the major contaminants of concern for each vertical interval. The contours shall be overlaid with the solid waste distribution for that interval.

Response 8. **Figures 7, 7a, 8, 8a, 9 and 9a** illustrate the soil analytical summary for each interval with an isocontour for each of the contaminants of concern (COCs) and the solid waste distribution for each interval.

Comment 9. Provide a map indicating the solid waste thickness at each soil boring location.

Response 9. **Figure 5** illustrates the depth to solid waste based on visual observation at each soil boring location overlaid with color contouring for visualization.

CONCLUSIONS AND RECOMMENDATIONS

Groundwater concentrations of antimony and iron were reported above the Groundwater Cleanup Target Levels (GCTLs) in monitoring wells MW-1 and MW-2, respectively. SCS recommends continuing groundwater monitoring of MW-1 and MW-2.


With regard to soils surrounding SB-58 and SB-60, it appears that delineation of heavy metals associated with solid waste has been achieved with the exception of arsenic to the west of SB-83.

Figure 10 illustrates arsenic contours of 2.1 mg/kg (the Residential SCTL), 5 mg/kg, 7 mg/kg and 12 mg/kg at the 0-0.5 interval. As shown, the 2.1 mg/kg contour encompasses nearly the entire site; similarly the 5 mg/kg and 7 mg/kg contours do as well. With the exception of a few locations, most notably the eastern fenceline located east of the football field/track, the 12 mg/kg contour correlates with the solid waste COC contours and/or visible solid waste.

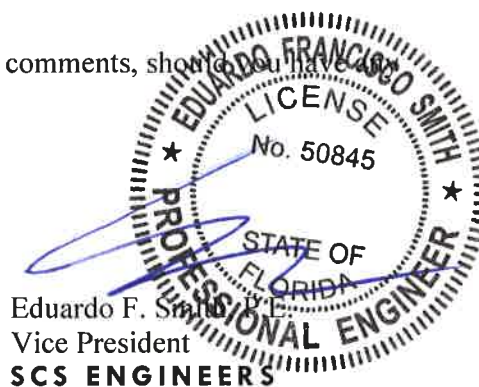
The on-site assessment conducted to date is sufficient to develop the corrective action plan (CAP) for this site. The proposed CAP will include a two-foot clean fill cover in the playground area and a vegetated one-foot clean fill cover underlain by a high-visibility, non-woven geotextile for the remainder of the park. In addition to one-foot of clean fill cover and geotextile fabric, the baseball field may be overlaid with artificial turf.

We trust that the information included herein satisfies your comments, should you have any questions or comments, please contact the undersigned.

Sincerely,



Brittney Odom
Project Professional
SCS ENGINEERS



Enclosures

Cc Mr. Jeovanny Rodriguez and Mr. Harry James, City of Miami

Attachments

Attachment A – Regulatory Correspondence

Attachment B – Well Construction and Development Logs

Attachment C – Groundwater Sampling Logs, Groundwater Laboratory Reports & Chain-of-Custody

Attachment D – Soil Boring Logs, Soil Laboratory Report & Chain-of-Custody

Table 1 – Groundwater Analytical Summary

Table 2 – Soil Analytical Summary

Figure 1 – Groundwater Analytical Summary

Figure 2 – Soil Analytical Summary (0-0.5)

Figure 3 – Soil Analytical Summary (0.5-1.0)

Figure 4 – Soil Analytical Summary (1.0-2.0)

Figure 5 – Depth to Solid Waste (Visual Observation)

Figure 6 – Sampling Locations Map w/ Cross-Sections

Figure 6a – Profiles of Cross Sections

Figure 7 – Soil Analytical Summary (0-0.5) w/Metal Isocontours (Sb, As, Ba, Cu, Fe & Pb)

Figure 7a – Soil Isocontours w/ Visible Solid Waste (0-0.5)

Figure 8 – Soil Analytical Summary (0.5-1.0) w/Metal Isocontours (Sb, As, Ba, Cu, Fe & Pb)

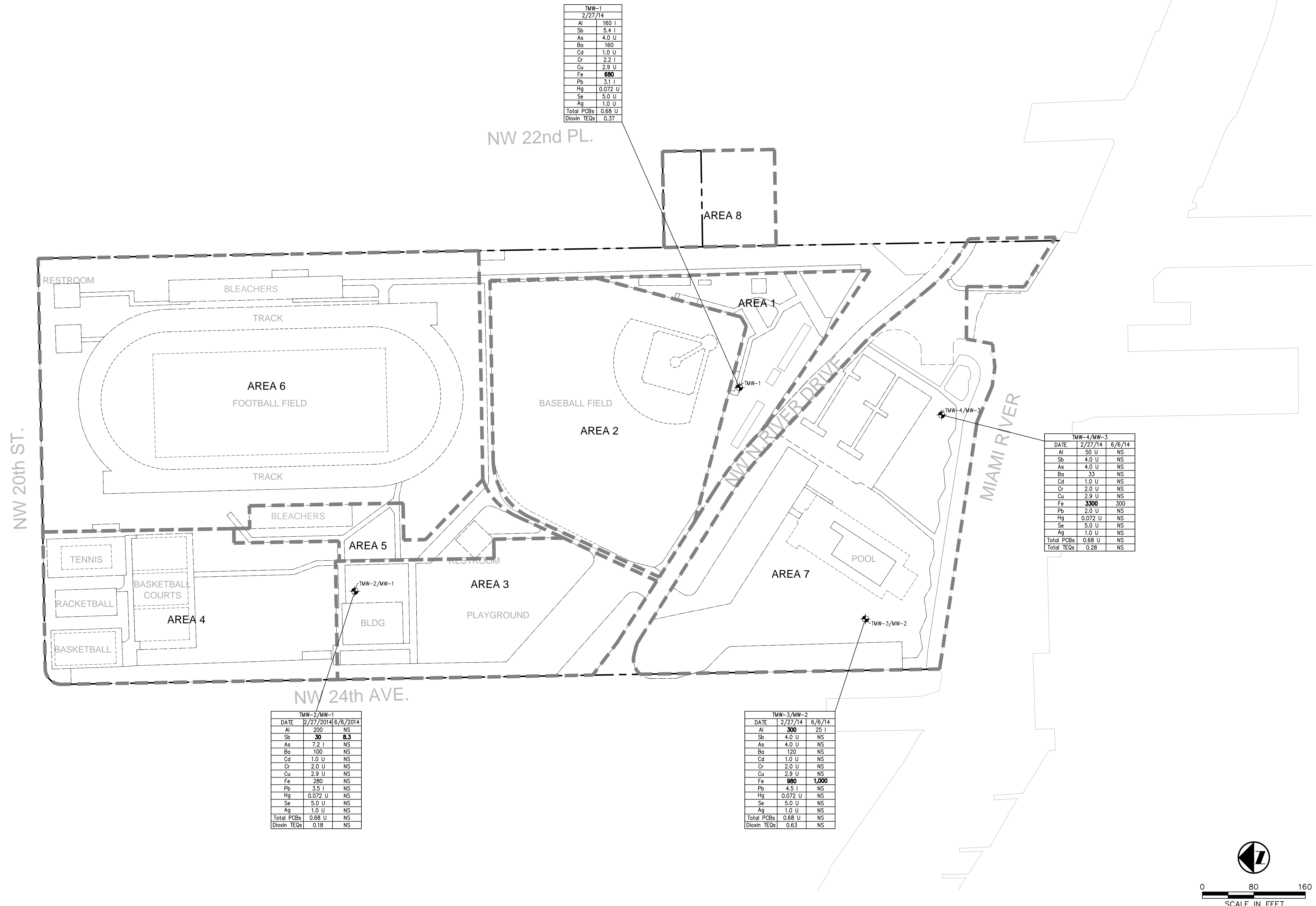
Figure 8a – Soil Isocontours w/ Visible Solid Waste (0.5-1.0)

Figure 9 – Soil Analytical Summary (1.0-2.0) w/Metal Isocontours (Sb, As, Ba, Cu, Fe & Pb)

Figure 9a – Soil Isocontours w/ Visible Solid Waste (1.0-2.0)

Figure 10 – Soil Analytical Summary (0-0.5) w/Metal Isocontours (As)

FIGURES



TMW-1	
DATE	2/27/14
Al	160 I
Sb	5.4 I
As	4.0 U
Ba	160
Cd	1.0 U
Cr	2.2 I
Cu	2.9 U
Fe	680
Pb	3.1 I
Hg	0.072 U
Se	5.0 U
Ag	1.0 U
Total PCBs	0.68 U
Dioxin TEQs	0.37

TMW-4/MW-3		
DATE	2/27/14	6/6/14
Al	50 U	NS
Sb	4.0 U	NS
As	4.0 U	NS
Ba	33	NS
Cd	1.0 U	NS
Cr	2.0 U	NS
Cu	2.9 U	NS
Fe	3300	300
Pb	2.0 U	NS
Hg	0.072 U	NS
Se	5.0 U	NS
Ag	1.0 U	NS
Total PCBs	0.68 U	NS
Total TEQs	0.28	NS

TMW-2/MW-1		
DATE	2/27/2014	6/6/2014
Al	200	NS
Sb	30	8.3
As	7.2 I	NS
Ba	100	NS
Cd	1.0 U	NS
Cr	2.0 U	NS
Cu	2.9 U	NS
Fe	280	NS
Pb	3.5 I	NS
Hg	0.072 U	NS
Se	5.0 U	NS
Ag	1.0 U	NS
Total PCBs	0.68 U	NS
Dioxin TEQs	0.18	NS

TMW-3/MW-2		
DATE	2/27/14	6/6/14
Al	300	25 I
Sb	4.0 U	NS
As	4.0 U	NS
Ba	120	NS
Cd	1.0 U	NS
Cr	2.0 U	NS
Cu	2.9 U	NS
Fe	980	1,000
Pb	4.5 I	NS
Hg	0.072 U	NS
Se	5.0 U	NS
Ag	1.0 U	NS
Total PCBs	0.68 U	NS
Dioxin TEQs	0.63	NS

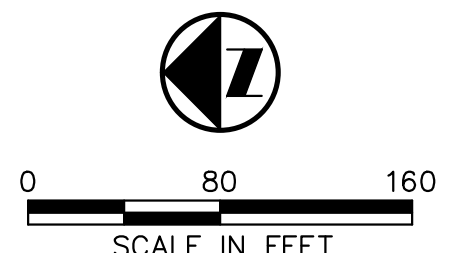
NOTES
 µg/L - micrograms per Liter
 pg/L - picograms per Liter
 U - Analyte was not detected at the laboratory Method Detection Limit (MDL).
 I - The reported value is between the MDL and the Laboratory Practical Quantitation Limit (PQL).
Bold - Indicates an exceedance of the Groundwater Cleanup Target Level (CCTL)

LEGEND
 - - - - - PROPERTY LINE
 * TEMPORARY / PERMANENT MONITORING WELL LOCATION

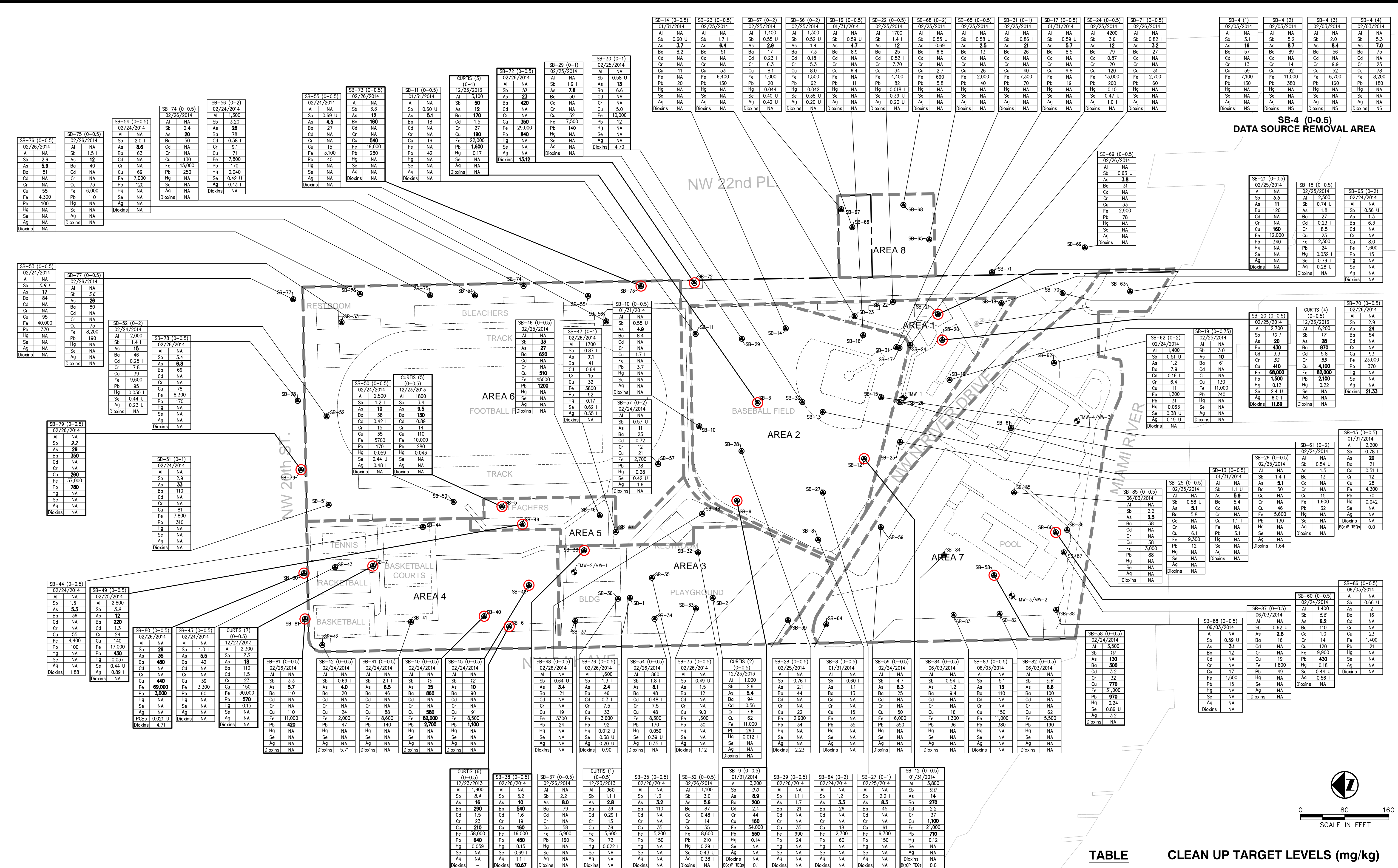
TABLE CLEAN UP TARGET LEVELS (µg/L)

SAMPLE ID	DATE	ANALYTE	GCTL
Al	µg/L	Al	200
Sb	µg/L	Sb	6
As	µg/L	As	10
Ba	µg/L	Ba	2,000
Cd	µg/L	Cd	5
Cr	µg/L	Cr	1,000
Cu	µg/L	Cu	300
Fe	µg/L	Fe	15
Pb	µg/L	Pb	2
Hg	µg/L	Hg	50
Se	µg/L	Se	100
Ag	µg/L	Ag	0.5
Total PCBs	µg/L	Total PCBs	0.5
Dioxin TEQs	pg/L	Dioxin TEQs	30

ANALYTE	GCTL
Al	200
Sb	6
As	10
Ba	2,000
Cd	5
Cr	1,000
Cu	300
Fe	15
Pb	2
Hg	50
Se	100
Ag	0.5
Total PCBs	0.5
Dioxin TEQs	30



SHEET TITLE GROUNDWATER ANALYTICAL SUMMARY MAP	CHK. BY	
	DESCRIPTION	
REV	DATE	
PROJECT TITLE CURTIS PARK 1901 NW 24th AVE. MIAMI, FL		
CLIENT CITY OF MIAMI		
SCS ENGINEERS STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS, INC. 7700 N. KENDALL DRIVE, SUITE 300, MIAMI, FL 33156 PH. (305) 412-8185 FAX. (305) 412-9105 FL CERTIFICATE OF AUTHORIZATION NO. 00004982 REG. NO. 092731010.31 DWN. BY: WCR CHK. BY: MCP APP. BY: EFS		
CADD FILE:		
DATE: JULY-2014		
SCALE: AS NOTED		
DRAWING NO. Fig. 1		
SHEET 1 of 14		
LICENSE NO.		



NOTES
 mg/kg - milligrams per kilogram
 ng/kg - nanograms per kilogram
 U - Not detected at the Laboratory Method Limit (MDL).
 I - Estimated value, the reported value is between the MDL and the Practical Quantitation Limit (PQL).
 SCITLs - Soil Cleanup Target Levels specified in Table II of Chapter 24, Miami-Dade County Code
Bold - Indicates an exceedance of the residential SCITLs
Italics - Indicates an exceedance of the leachability based on the groundwater criteria
 NA - Not Analyzed
 NS - Not Sampled

LEGEND

- PROPERTY LINE
- SOIL BORING LOCATION
- ⊕ TEMPORARY / PERMANENT MONITORING WELL LOCATION
- ⊙ SOIL SCITLS EXCEEDANCE (ARSENIC ONLY EXCEEDANCE NOT INCLUDED)
- ⊖ SOIL BORING LOCATION REMOVED

TABLE CLEAN UP TARGET LEVELS (mg/kg)

SAMPLE ID	DATE	ANALYTE	RESIDENTIAL	INDUSTRIAL	LEACHABILITY
Al	mg/kg	Al	80,000	*	
Sb	mg/kg	Sb	27	370	5.4
As	mg/kg	As	2.1	12	
Ba	mg/kg	Ba	120	130,000	1,600
Cd	mg/kg	Cd	32	1,700	7.5
Cr	mg/kg	Cr	810	470	38
Cu	mg/kg	Cu	150	89,000	*
Fe	mg/kg	Fe	53,000	N/A	*
Pb	mg/kg	Pb	400	1,400	*
Hg	mg/kg	Hg	3	17	2.1
Se	mg/kg	Se	440	11,000	5.2
Ag	mg/kg	Ag	410	8,200	17
Total PCBs	ng/kg	Total PCBs	0.5	2.6	17
Dioxins	ng/kg	Dioxins	7	30	3,000
B(a)P TEQs	ng/kg	Benzo(a)Pyrene Equivalent	0.1	0.7	NA

CLIENT
 CITY OF MIAMI

PROJECT TITLE
 CURTIS PARK
 1901 NW 24th AVE.
 MIAMI, FL

SHEET TITLE
 SOIL ANALYTICAL SUMMARY (0-0.5)

REV **DATE** **DESCRIPTION**

CHK. BY **DATE**

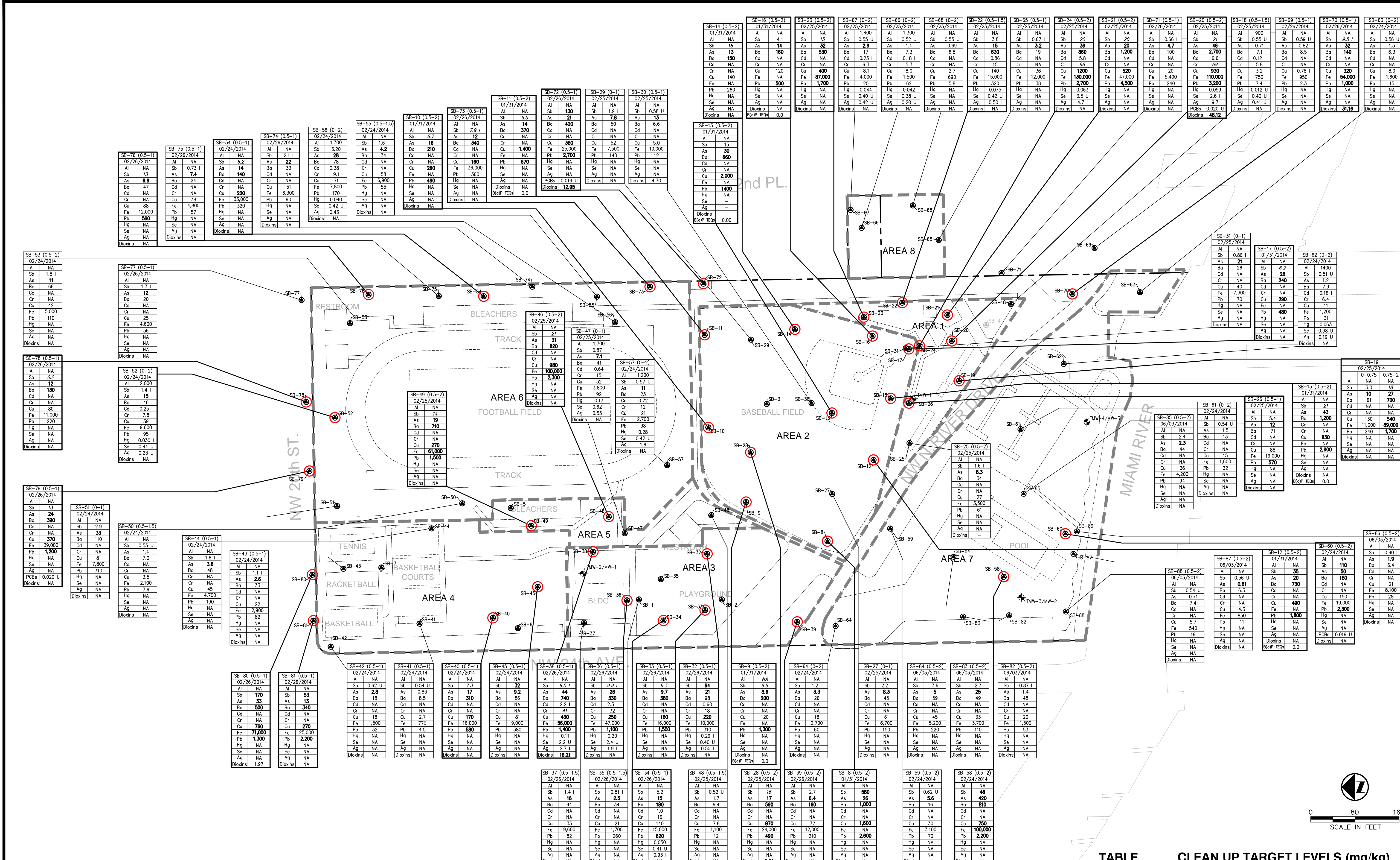
SCALE
 JULY-2014

DRAWING NO.
 Fig. 2

SHEET 2 of 14

LICENSE NO.

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 STEARNS, CONRAD AND SCHMIDT
 CONSULTING ENGINEERS, INC.
 7700 N. KENDALL DRIVE, SUITE 300, MIAMI, FL 33156
 PH. (305) 412-8185 FAX. (305) 412-8105
 FL CERTIFICATE OF AUTHORIZATION NO. 00004982
 REG. NO. 092733010.31 DWG. BY: WCR C/A: RWB MCP
 DATE: 06/03/2014 CHK. BY: MCP APP. BY: EFS



NOTES

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 Italics - Indicates an exceedance of the leachability based on the groundwater criteria
 NA - Not Analyzed

LEGEND

- PROPERTY LINE
- ⊙ SOIL BORING LOCATION
- ⊕ TEMPORARY / PERMANENT MONITORING WELL LOCATION
- ⊙ SOIL SCTLs EXCEEDANCE (ARSENIC ONLY EXCEEDANCE NOT INCLUDED)
- ⊙ SOIL BORING LOCATION REMOVED

TABLE CLEAN UP TARGET LEVELS (mg/kg)

SAMPLE ID	ANALYTE	RESIDENTIAL	INDUSTRIAL	LEACHABILITY
AI	AI	80,000	+	5.4
Sb	Sb	27	370	5.4
As	As	2.1	12	1.8
Ba	Ba	120	130,000	1,600
Cd	Cd	82	1,700	7.5
Cr	Cr	310	470	38
Cu	Cu	150	89,000	+
Fe	Fe	53,000	N/A	+
Pb	Pb	400	1,400	+
Hg	Hg	3	17	2.1
Se	Se	440	11,000	5.2
Ag	Ag	410	8,200	17
Total PCBs	Total PCBs	0.5	2.6	17
Dioxins ng/kg	Dioxins ng/kg	7	30	3,000
Benzo(a)Pyrene Equivalent	Benzo(a)Pyrene Equivalent	0.1	0.7	NA

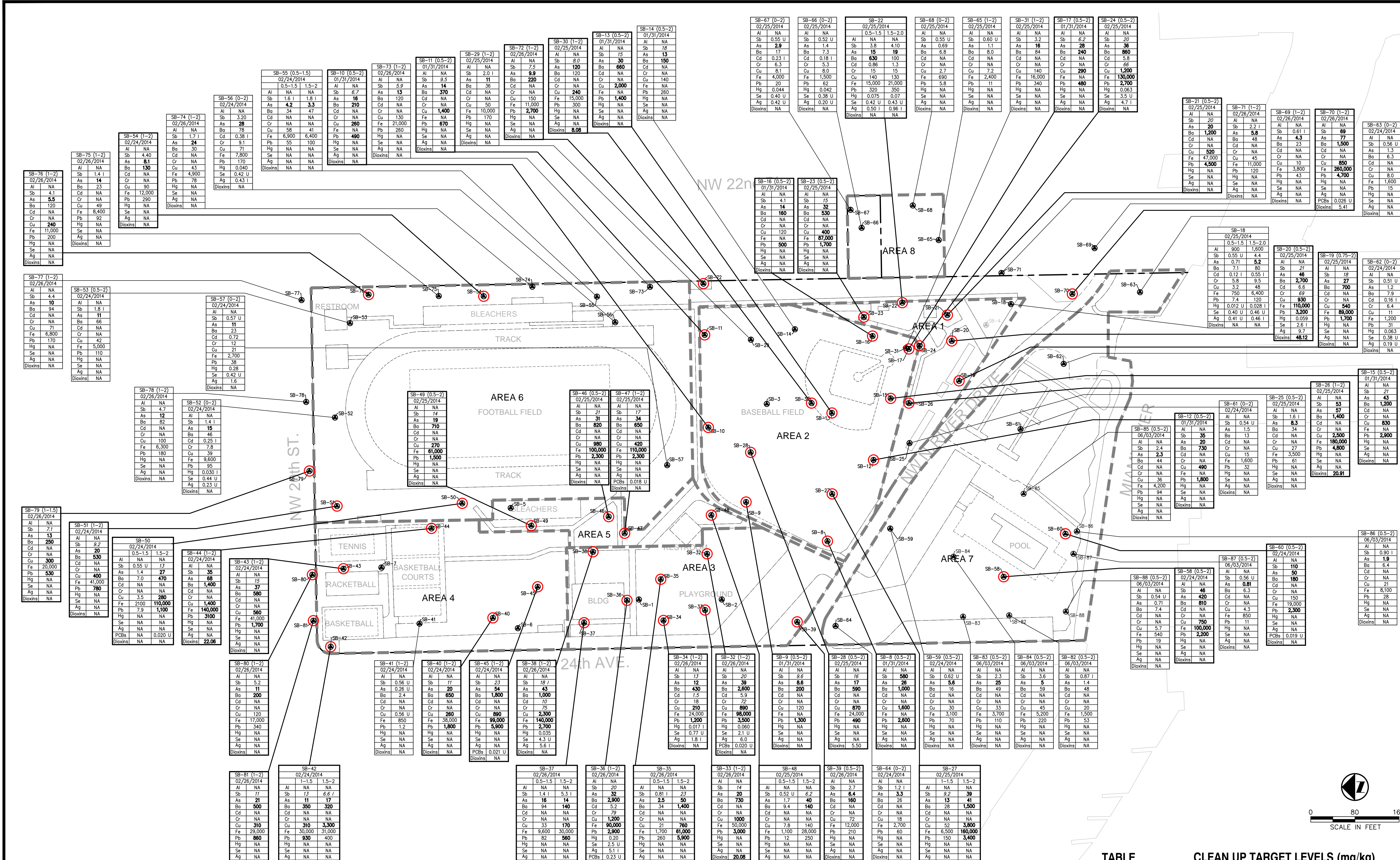
CITY OF MIAMI
 PROJECT TITLE: **SOIL ANALYTICAL SUMMARY (0.5-1.0)**
 CURTIS PARK
 1901 NW 24th AVE.
 MIAMI, FL

CLIENT: **SCS ENGINEERS**
 STEARNS, CONRAD AND SCHMIDT
 CONSULTING ENGINEERS, INC.
 7700 N. KENDALL DRIVE, SUITE 900, MIAMI, FL 33156
 PH. (305) 412-8185 FAX. (305) 412-8105
 FL CERTIFICATE OF AUTHORIZATION NO. 00004982

DATE: **JULY-2014**
 SCALE: **AS NOTED**
 DRAWING NO. **Fig. 3**
 SHEET **3** of **14**

CHK. BY: _____
 DESCRIPTION: _____
 REV: _____
 DATE: _____

LICENSE NO. _____



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 NA - Not Analyzed

LEGEND

- PROPERTY LINE
- ⊙ SOIL BORING LOCATION
- ⊕ TEMPORARY / PERMANENT MONITORING WELL LOCATION
- ⊙ SOIL SCITLS EXCEEDANCE (ARSENIC ONLY EXCEEDANCE NOT INCLUDED)
- ⊙ SOIL BORING LOCATION REMOVED

TABLE CLEAN UP TARGET LEVELS (mg/kg)

ANALYTE	RESIDENTIAL	INDUSTRIAL	LEACHABILITY
Al	80,000	*	5.4
Sb	27	370	5.4
As	2.1	12	7.5
Ba	120	130,000	1,600
Cd	82	1,700	38
Cr	310	470	*
Cu	150	89,000	*
Fe	53,000	N/A	*
Pb	400	1,400	*
Hg	3	17	2.1
Se	440	11,000	5.2
Ag	410	8,200	17
Total PCBs	0.5	2.6	17
Dioxins ng/kg	7	30	3,000
Benzo(a)Pyrene Equivalent	0.1	0.7	NA

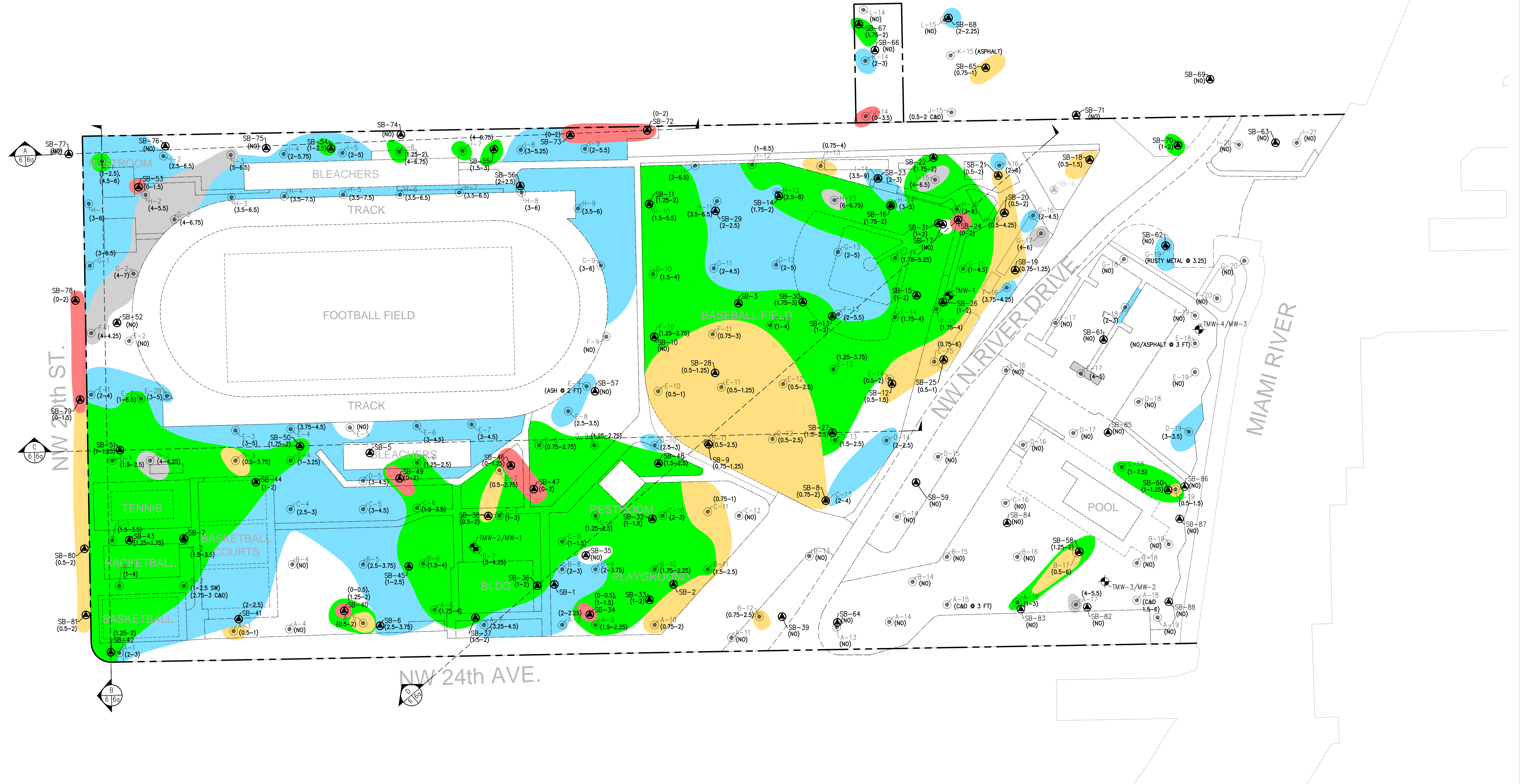
SOIL ANALYTICAL SUMMARY (1.0-2.0)
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 FL CERTIFICATE OF AUTHORIZATION NO. 00004982

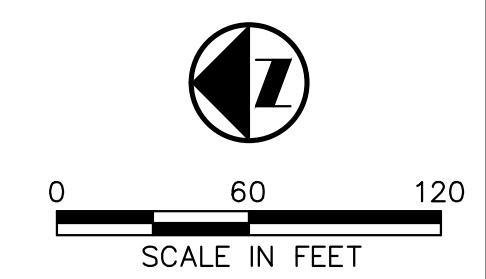
DATE: JULY-2014
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 DRAWING NO. Fig. 4
 SHEET 4 of 14

NW 22nd PL.



LEGEND

- PROPERTY LINE
- ⊙ VISUAL DELINEATION SOIL BORINGS
- ⊙ SOIL BORING LOCATION
- ⊙ TEMPORARY / PERMANENT MONITORING WELL LOCATION
- NO SOLID WASTE WITHIN THE CORE
- SOLID WASTE AT 0.0-0.5 FT
- SOLID WASTE AT 0.5-1.0 FT
- SOLID WASTE AT 1.0-2.0 FT
- SOLID WASTE AT 2.0-4.0 FT
- SOLID WASTE AT 4.0 FT AND DEEPER
- SECTION LETTER
- SECTION BUBBLE
- SHEET WHERE DETAIL IS REFERENCED
- SHEET WHERE SECTION IS DRAWN



CHK. BY	DESCRIPTION	DATE	REV

**SAMPLING LOCATIONS MAP
w/ CROSS-SECTIONS**

**CURTIS PARK
1901 NW 24th AVE.
MIAMI, FL**

CITY OF MIAMI

CLIENT

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS, INC.
7700 N. KENDALL DRIVE, SUITE 300, MIAMI, FL 33156
PH. (305) 412-8185 FAX. (305) 412-9105
FL CERTIFICATE OF AUTHORIZATION NO. 00004982

CADD FILE:

DATE: JULY-2014

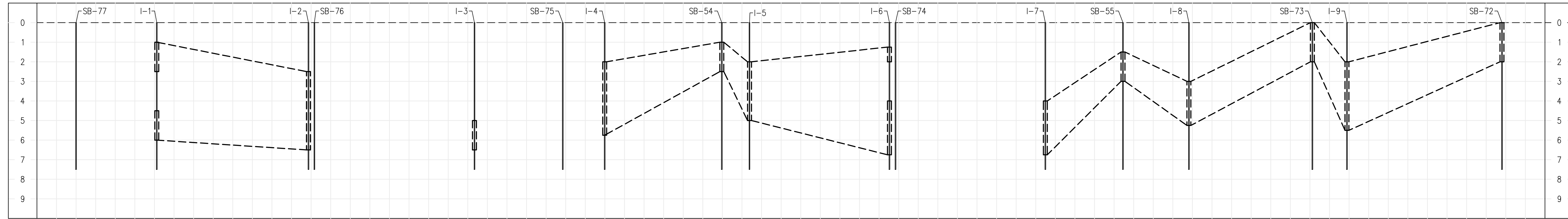
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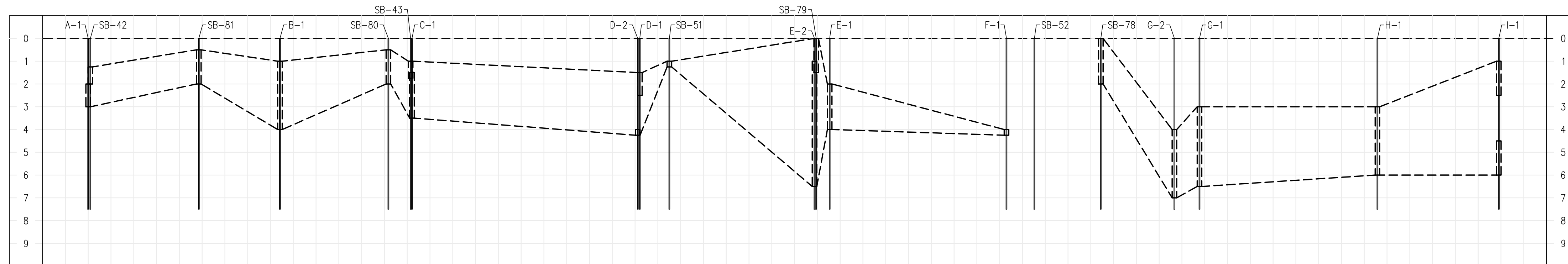
SHEET 6 of 14

LICENSE NO.

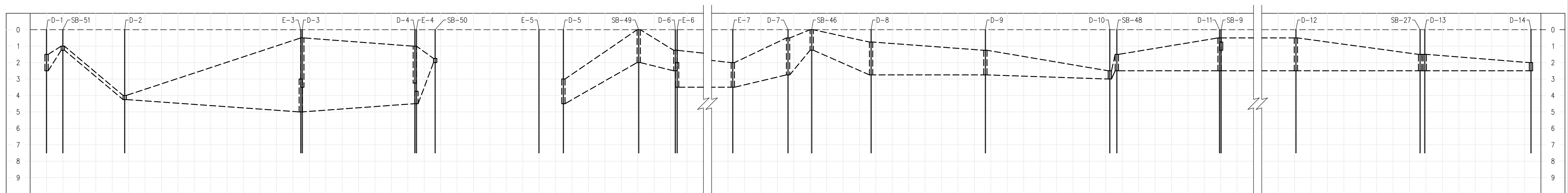
M:\ESMASTER\City of Miami\Curtis Park\Drawings\Fig.06a - PROFILES OF CROSS SECTIONS.dwg Jul 01, 2014 - 11:34am Layout Name: LAYOUT By: 3618wcr



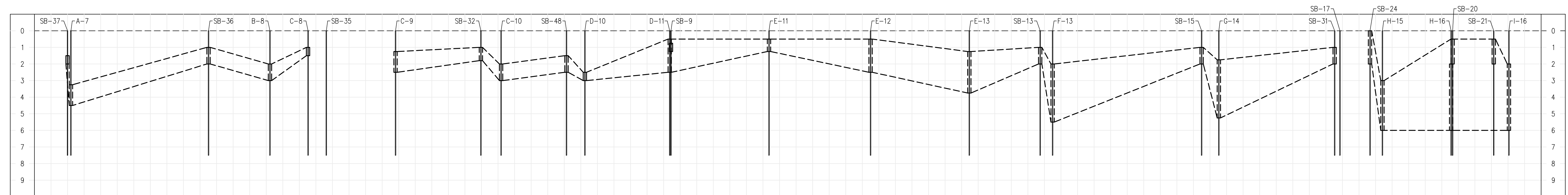
PROFILE A
 HOR. SCALE: 1"=30'
 VERT. SCALE: 1"=3'



PROFILE B
 HOR. SCALE: 1"=30'
 VERT. SCALE: 1"=3'



PROFILE C
 HOR. SCALE: 1"=30'
 VERT. SCALE: 1"=3'



PROFILE D
 HOR. SCALE: 1"=30'
 VERT. SCALE: 1"=3'

LEGEND

- SB-1 SOIL BORING LOCATION / ID
- DASHED WHERE INFERRED

PROFILES OF CROSS SECTIONS

CURTIS PARK
 1901 NW 24th AVE.
 MIAMI, FL

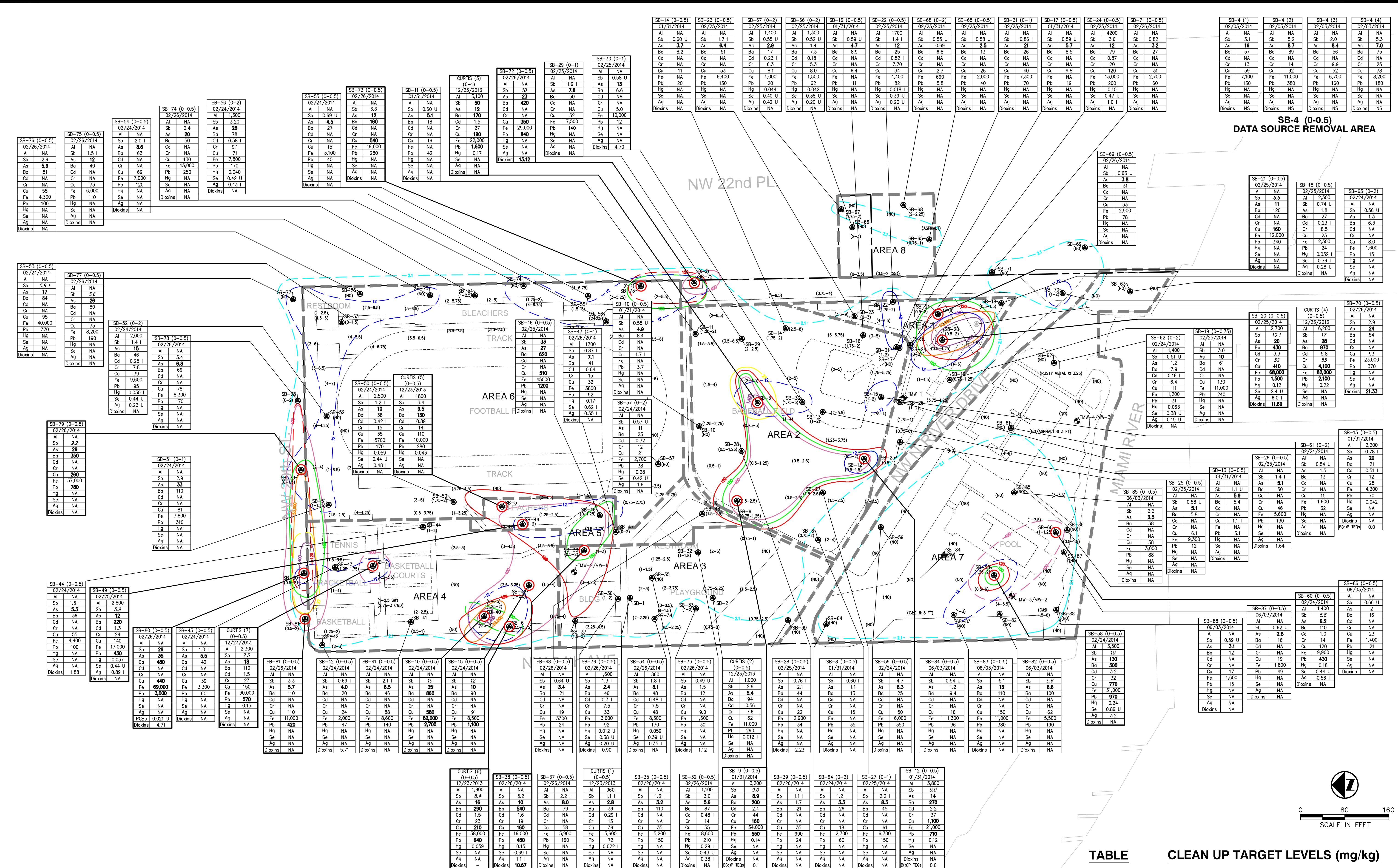
CITY OF MIAMI

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 DATE: 08/01/14 CHK. BY: MCP APP. BY: EFS

DATE: JULY-2014
 SCALE: AS NOTED
 DRAWING NO. **Fig. 6a**
 SHEET 7 of 14

REV	DATE	DESCRIPTION	CHK. BY
1			
2			
3			
4			
5			
6			
7			
8			
9			

LICENSE NO.



NOTES

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 NS - Not Sampled

LEGEND

- PROPERTY LINE
- SOIL BORING LOCATION
- ⊕ TEMPORARY / PERMANENT MONITORING WELL LOCATION
- ⊙ SOIL SCITLS EXCEEDANCE (ARSENIC ONLY EXCEEDANCE NOT INCLUDED)
- ⊖ SOIL BORING LOCATION REMOVED VIA EXCAVATION

CONTOURS

RESIDENTIAL	INDUSTRIAL
ANTIMONY 27	ANTIMONY 370
ARSENIC 2.1	ARSENIC 12
BARIUM 120	BARIUM 130,000
COPPER 150	COPPER 89,000
IRON 53,000	
LEAD 400	LEAD 1,400

NOTE: CONCENTRATION CONTOURS DASHED WHERE INFERRED

TABLE CLEAN UP TARGET LEVELS (mg/kg)

SAMPLE ID	DATE	ANALYTE	RESIDENTIAL	INDUSTRIAL	LEACHABILITY
AI	02/24/2014	Al	80,000	*	
Sb	02/24/2014	Sb	27	370	5.4
As	02/24/2014	As	2.1	12	7.5
Ba	02/24/2014	Ba	120	130,000	1,600
Cd	02/24/2014	Cd	82	1,700	38
Cr	02/24/2014	Cr	310	470	*
Cu	02/24/2014	Cu	150	89,000	*
Fe	02/24/2014	Fe	53,000	N/A	*
Pb	02/24/2014	Pb	400	1,400	*
Hg	02/24/2014	Hg	3	17	2.1
Se	02/24/2014	Se	440	11,000	5.2
Ag	02/24/2014	Ag	410	8,200	17
Total PCBs	02/24/2014	Total PCBs	0.5	2.6	17
Dioxins	02/24/2014	Dioxins	7	30	3,000
B(a)P TEQs	02/24/2014	Benzo(a)Pyrene Equivalent	0.1	0.7	NA

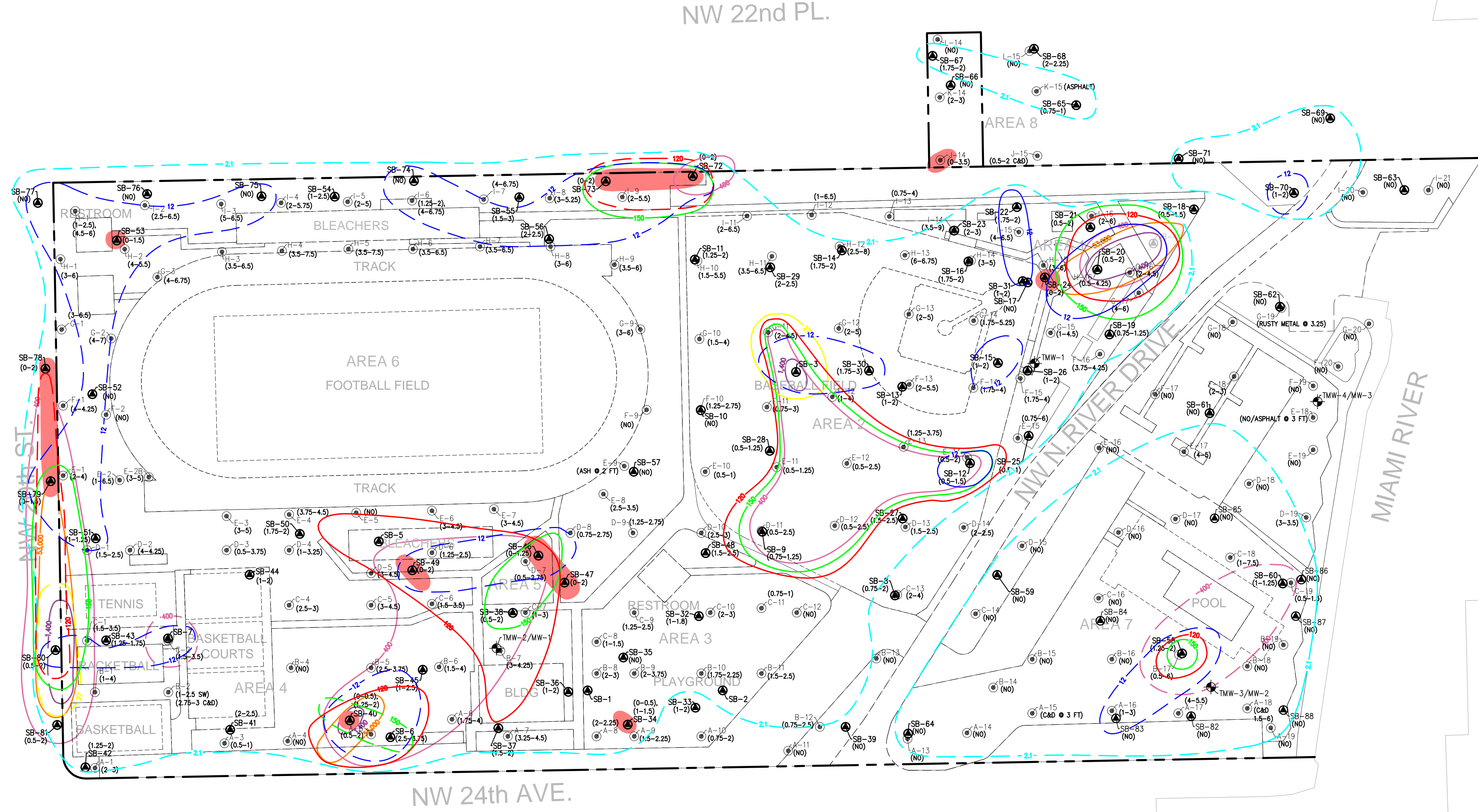
SCS ENGINEERS
 STEARNS, CONRAD AND SCHMIDT
 CONSULTING ENGINEERS, INC.
 7700 N. KENDALL DRIVE, SUITE 300, MIAMI, FL 33156
 PH. (305) 412-8185 FAX. (305) 412-8105
 FL CERTIFICATE OF AUTHORIZATION NO. 00004982
 REG. NO. 092731010.31 DWG. BY: WCR C/A BY: MCP
 DATE: 06/03/2014 CHK. BY: MCP APP. BY: EFS

CITY OF MIAMI
 PROJECT TITLE: SOIL ANALYTICAL SUMMARY (0-0.5) w/ METAL ISOCONTOURS (Sb, As, Ba, Cu, Fe & Pb)
 PROJECT TITLE: CURTIS PARK
 1901 NW 24th AVE.
 MIAMI, FL

CHECK BY: _____
 DESCRIPTION: _____
 DATE: _____
 REV: _____
 DATE: _____

LICENSE NO. _____

Fig. 7
 SHEET 8 of 14



NOTES

mg/kg - milligrams per kilogram
 ng/kg - nanograms per kilogram
 U - Not detected at the Laboratory Method Limit (MDL).
 I - Estimated value, the reported value is between the MDL and the Practical Quantitation Limit (PQL).
 SCTLs - Soil Cleanup Target Levels specified in Table II of Chapter 24, Miami-Dade County Code
Bold - Indicates an exceedance of the residential SCTLs
Italics - Indicates an exceedance of the leachability based on the groundwater criteria
 NA - Not Analyzed
 NS - Not Sampled

LEGEND

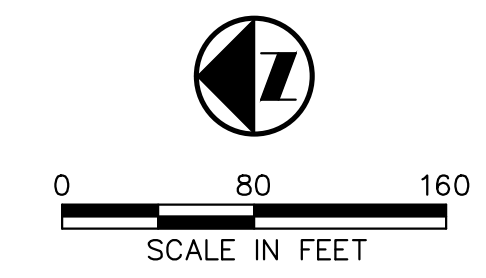
- PROPERTY LINE
- ⊙ SOIL BORING LOCATION
- ⊕ TEMPORARY / PERMANENT MONITORING WELL LOCATION
- ⊙ SOIL SCTLs EXCEEDANCE (ARSENIC ONLY EXCEEDANCE NOT INCLUDED)
- ⊙ SOIL BORING LOCATION REMOVED VIA EXCAVATION

CONTOURS

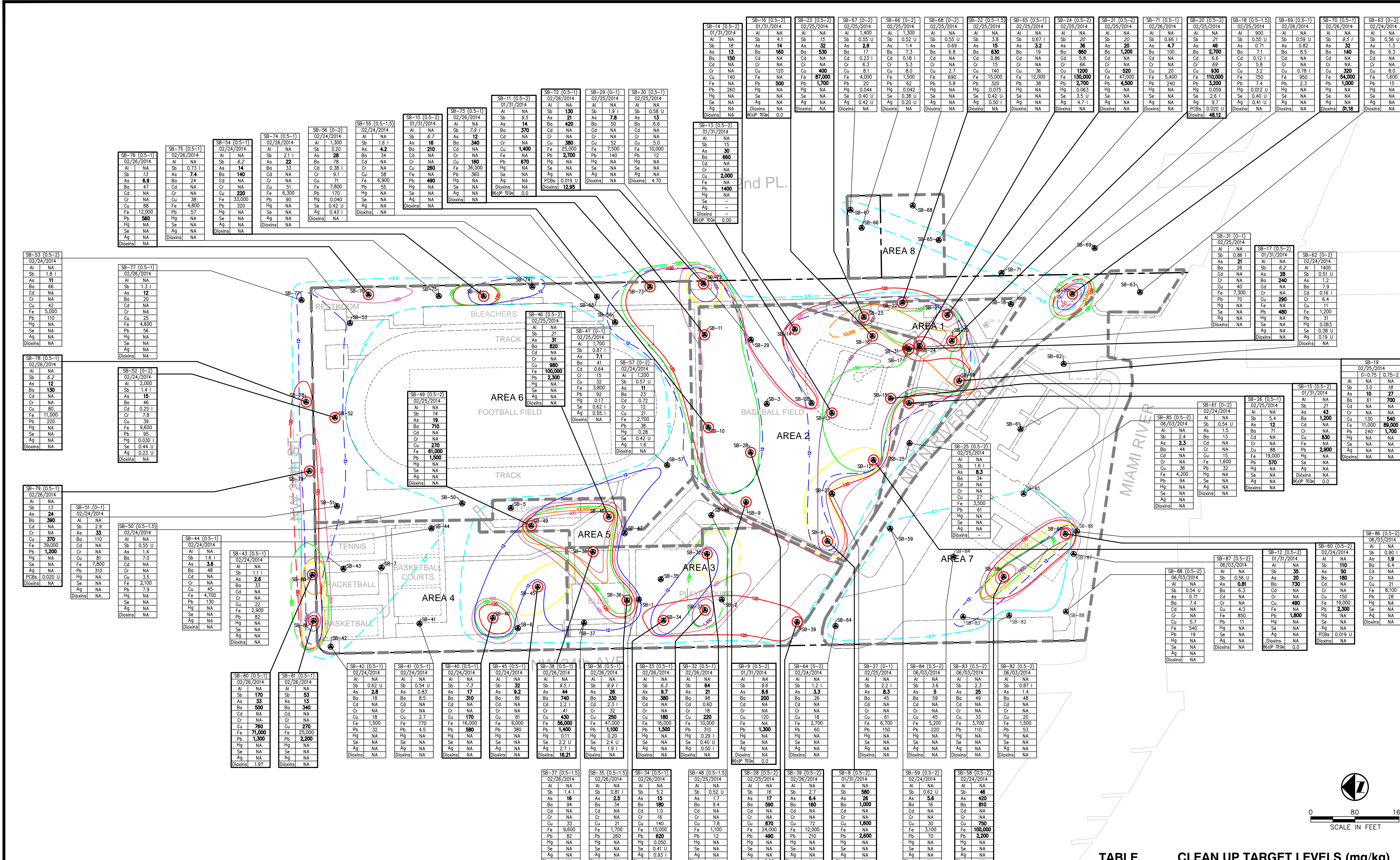
RESIDENTIAL		INDUSTRIAL	
ANTIMONY	27	ANTIMONY	370
ARSENIC	2.1	ARSENIC	12
BARIUM	120	BARIUM	130,000
COPPER	150	COPPER	89,000
IRON	53,000	LEAD	1,400
LEAD	400		

NOTE: CONCENTRATION CONTOURS DASHED WHERE INFERRED

SOLID WASTE STARTS AT 0-0.5 FT



SHEET TITLE SOIL ISOCONTOURS w/ VISIBLE SOLID WASTE (0-0.5)	CHK. BY	
	DESCRIPTION	
REV	DATE	
PROJECT TITLE CURTIS PARK 1901 NW 24th AVE. MIAMI, FL		
CITY OF MIAMI		
CLIENT		
SCS ENGINEERS STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS, INC. 7700 N. KENDALL DRIVE, SUITE 300, MIAMI, FL 33156 PH. (305) 412-8185 FAX. (305) 412-8105 FL CERTIFICATE OF AUTHORIZATION NO. 00004892	DWN. BY: WCR	C/A. BY: MCP
	CHK. BY: MCP	APP. BY: EFS
CADD FILE:		
DATE:	JULY-2014	
SCALE:	AS NOTED	
DRAWING NO.	Fig. 7a	
SHEET	9 of 14	
LICENSE NO.		



NOTES

mg/kg - milligrams per kilogram
 ng/kg - nanograms per kilogram
 U - Not detected at the Laboratory Method Limit (MDL).
 I - Estimated value, the reported value is between the MDL and the Practical Quantitation Limit (PQL).
 SCTLs - Soil Cleanup Target Levels specified in Table II of Chapter 24, Miami-Dade County Code
Bold - Indicates an exceedance of the residential SCTLs
Italics - Indicates an exceedance of the leachability based on the groundwater criteria
 NA - Not Analyzed

LEGEND

- PROPERTY LINE
- ⊙ SOIL BORING LOCATION
- ⊕ TEMPORARY / PERMANENT MONITORING WELL LOCATION
- ⊙ SOIL SCTLs EXCEEDANCE (ARSENIC ONLY EXCEEDANCE NOT INCLUDED)
- ⊙ SOIL BORING LOCATION REMOVED

CONTOURS

RESIDENTIAL	INDUSTRIAL
ANTIMONY 27	ANTIMONY 370
ARSENIC 2.1	ARSENIC 12
BARIUM 120	BARIUM 130,000
COPPER 150	COPPER 89,000
IRON 53,000	LEAD 1,400

NOTE: CONCENTRATION CONTOURS DASHED WHERE INFERRED

TABLE CLEAN UP TARGET LEVELS (mg/kg)

SAMPLE ID	DATE	ANALYTE	RESIDENTIAL	INDUSTRIAL	LEACHABILITY
Al	mg/kg	Al	80,000	+	5.4
Sb	mg/kg	Sb	27	370	5.4
As	mg/kg	As	2.1	12	1.8
Ba	mg/kg	Ba	120	130,000	1,600
Cd	mg/kg	Cd	82	1,700	7.5
Cr	mg/kg	Cr	310	470	38
Cu	mg/kg	Cu	150	89,000	+
Fe	mg/kg	Fe	53,000	N/A	+
Pb	mg/kg	Pb	400	1,400	+
Hg	mg/kg	Hg	3	17	2.1
Se	mg/kg	Se	440	11,000	5.2
Ag	mg/kg	Ag	410	8,200	17
Total PCBs	ng/kg	Total PCBs	0.5	2.6	17
Dioxins	ng/kg	Dioxins	7	30	3,000
Benzo(a)Pyrene Equivalent	ng/kg	Benzo(a)Pyrene Equivalent	0.1	0.7	NA

CITY OF MIAMI

SOIL ANALYTICAL SUMMARY (0.5-1.0) w/ METAL ISOCONTOURS (Sb, As, Ba, Cu, Fe & Pb)

CURTIS PARK
 1901 NW 24th AVE.
 MIAMI, FL

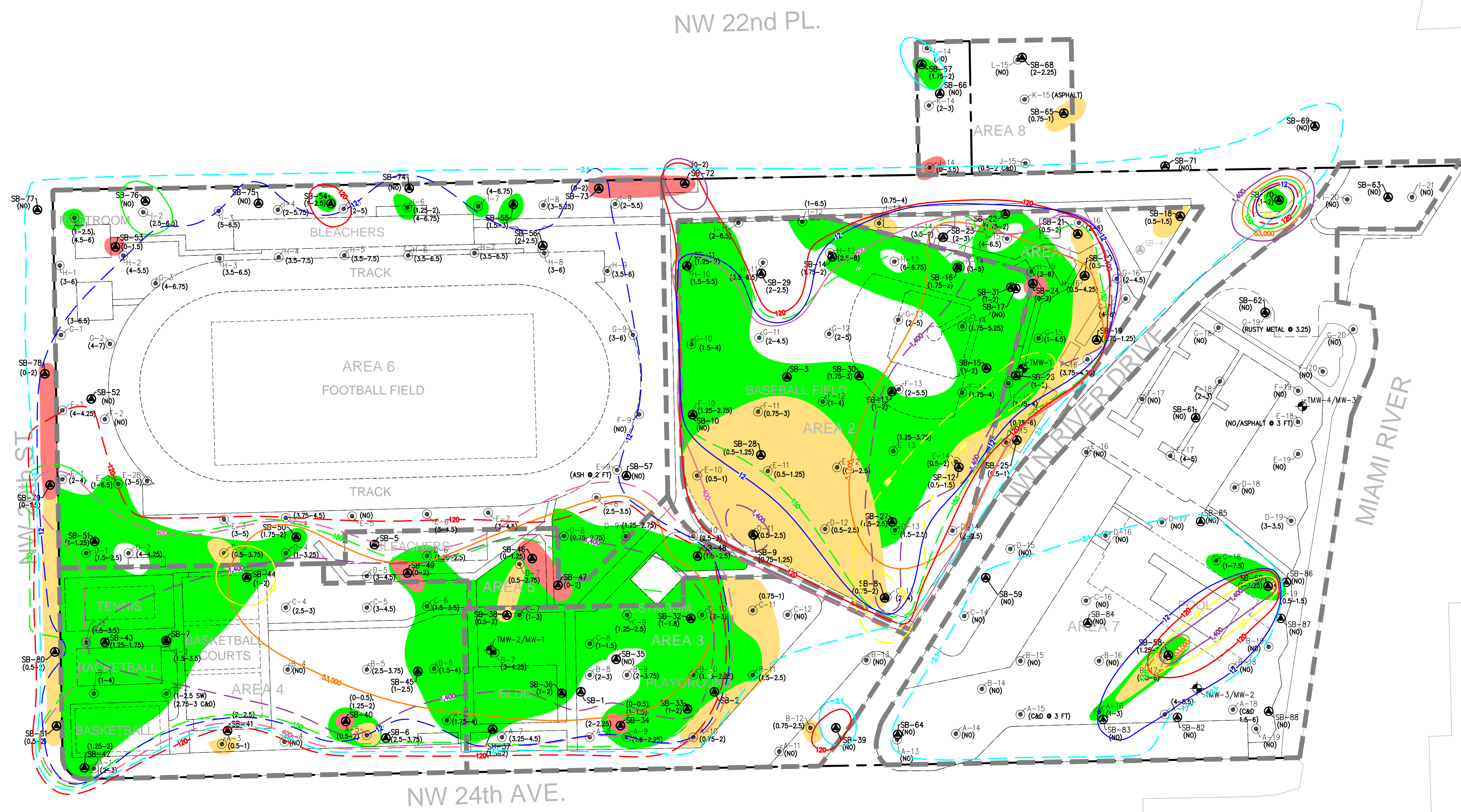
SCS ENGINEERS
 STEARNS, CONRAD AND SCHMIDT
 CONSULTING ENGINEERS, INC.
 7700 N. KENDALL DRIVE, SUITE 900, MIAMI, FL 33156
 PH. (305) 412-8185 FAX. (305) 412-8105
 FL CERTIFICATE OF AUTHORIZATION NO. 00004892

DATE: JULY-2014
 SCALE: AS NOTED
 DRAWING NO. **Fig. 8**
 SHEET 10 of 14

CLIENT: CITY OF MIAMI
 PROJECT TITLE: SOIL ANALYTICAL SUMMARY (0.5-1.0) w/ METAL ISOCONTOURS (Sb, As, Ba, Cu, Fe & Pb)
 SHEET TITLE: SOIL ANALYTICAL SUMMARY (0.5-1.0) w/ METAL ISOCONTOURS (Sb, As, Ba, Cu, Fe & Pb)
 PROJECT TITLE: CURTIS PARK 1901 NW 24th AVE. MIAMI, FL

CHK. BY: []
 DESCRIPTION: []
 DATE: []
 REV: []

SCALE IN FEET: 0 80 160



NOTES

mg/kg - milligrams per kilogram
 ng/kg - nanograms per kilogram
 U - Not detected at the Laboratory Method Limit (MDL).
 I - Estimated value, the reported value is between the MDL and the Practical Quantitation Limit (PQL).
 SCTLs - Soil Cleanup Target Levels specified in Table II of Chapter 24, Miami-Dade County Code
Bold - Indicates an exceedance of the residential SCTLs
Italics - Indicates an exceedance of the leachability based on the groundwater criteria
 NA - Not Analyzed

LEGEND

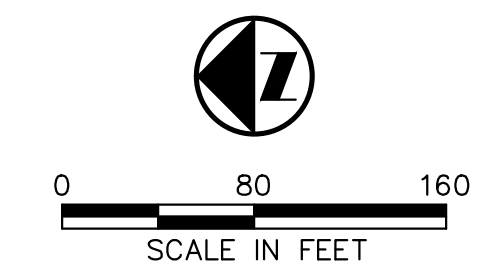
- PROPERTY LINE
- ⊙ SOIL BORING LOCATION
- ⊕ TEMPORARY / PERMANENT MONITORING WELL LOCATION
- ⊙ SOIL SCTLs EXCEEDANCE (ARSENIC ONLY EXCEEDANCE NOT INCLUDED)
- ⊙ SOIL BORING LOCATION REMOVED

CONTOURS

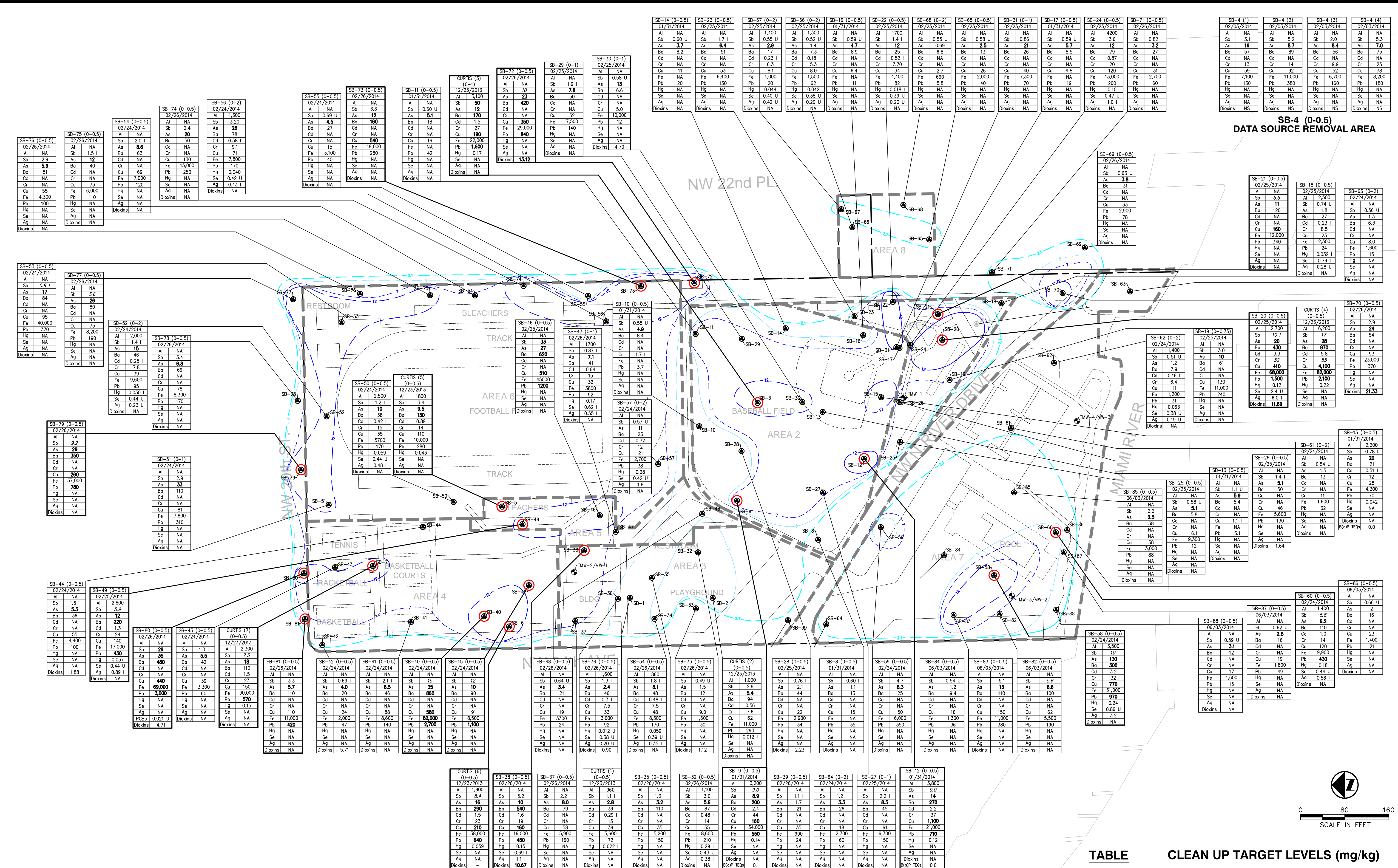
RESIDENTIAL		INDUSTRIAL	
ANTIMONY	27	ANTIMONY	370
ARSENIC	2.1	ARSENIC	12
BARIUM	120	BARIUM	130,000
COPPER	150	COPPER	89,000
IRON	53,000		
LEAD	400	LEAD	1,400

NOTE: CONCENTRATION CONTOURS DASHED WHERE INFERRED

- SOLID WASTE STARTS AT 0-0.5 FT
- SOLID WASTE STARTS AT 0.5-1.0 FT
- SOLID WASTE STARTS AT 1.0-2.0 FT



SHEET TITLE SOIL ISOCONTOURS w/ VISIBLE SOLID WASTE (1.0-2.0)	CHK. BY	
	DESCRIPTION	
REV	DATE	
PROJECT TITLE CURTIS PARK 1901 NW 24th AVE. MIAMI, FL		
CLIENT CITY OF MIAMI		
CADD FILE:	DRAWN BY: WCR	APP. BY: EFS
	CHECKED BY: MCP	DATE: JULY-2014
SCALE:		AS NOTED
DRAWING NO.	Fig. 9a	
	SHEET 13 of 14	
LICENSE NO.		



NOTES

mg/kg - milligrams per kilogram
 ng/kg - nanograms per kilogram
 U - Not detected at the Laboratory Method Limit (MDL).
 I - Estimated value, the reported value is between the MDL and the Practical Quantitation Limit (PQL).
 SCITLs - Soil Cleanup Target Levels specified in Table II of Chapter 24, Miami-Dade County Code
Bold - Indicates an exceedance of the residential SCITLs
Italics - Indicates an exceedance of the leachability based on the groundwater criteria
 NA - Not Analyzed
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LEGEND

- PROPERTY LINE
- SOIL BORING LOCATION
- ⊕ TEMPORARY / PERMANENT MONITORING WELL LOCATION
- ⊙ SOIL SCITLS EXCEEDANCE (ARSENIC ONLY EXCEEDANCE NOT INCLUDED)
- ⊖ SOIL BORING LOCATION REMOVED VIA EXCAVATION

ARSENIC CONTOURS

RESIDENTIAL INDUSTRIAL

— ARSENIC 2.1 — ARSENIC 12 — ARSENIC 7 — ARSENIC 5

NOTE: CONCENTRATION CONTOURS DASHED WHERE INFERRED

TABLE CLEAN UP TARGET LEVELS (mg/kg)

SAMPLE ID	DATE	ANALYTE	RESIDENTIAL	INDUSTRIAL	LEACHABILITY
Al	mg/kg	Al	80,000	*	
Sb	mg/kg	Sb	27	370	5.4
As	mg/kg	As	2.1	12	
Ba	mg/kg	Ba	120	130,000	1,600
Cd	mg/kg	Cd	32	1,700	7.5
Cr	mg/kg	Cr	810	470	38
Cu	mg/kg	Cu	150	89,000	*
Fe	mg/kg	Fe	53,000	N/A	*
Pb	mg/kg	Pb	400	1,400	*
Hg	mg/kg	Hg	3	17	2.1
Se	mg/kg	Se	440	11,000	5.2
Ag	mg/kg	Ag	410	8,200	17
Total PCBs	ng/kg	Total PCBs	0.5	2.6	17
Dioxins	ng/kg	Dioxins	7	30	3,000
B(a)P TEQs	ng/kg	Benzo(a)Pyrene Equivalent	0.1	0.7	NA

SCS ENGINEERS
 STEARNS, CONRAD AND SCHMIDT
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 7700 N. KENDALL DRIVE, SUITE 300, MIAMI, FL 33156
 PH. (305) 412-8185 FAX. (305) 412-8105
 FL CERTIFICATE OF AUTHORIZATION NO. 00004982
 REG. NO. 09273010-31 DWG. BY: WCR C/A. REV. BY: MCP
 DATE: 06/03/2014 CHK. BY: MCP APP. BY: EFS

CITY OF MIAMI
 PROJECT TITLE: SOIL ANALYTICAL SUMMARY (0-0.5) w METAL ISOCONTOURS (As)
 CURTIS PARK
 1901 NW 24th AVE.
 MIAMI, FL

CHECK BY: _____
 DESCRIPTION: _____
 REV. DATE: _____
 SHEET TITLE: _____
 CLIENT: _____
 SCALE: AS NOTED
 DRAWING NO. **Fig. 10**
 SHEET 14 of 14

TABLES

**TABLE 1: GROUNDWATER ANALYTICAL SUMMARY (Metals, PCBs and Dioxins)
GERRY CURTIS PARK**

Sample															
Sample Location/ Sample ID	Date Collected	Aluminum	Antimony	Arsenic	Barium	Cadmium	Chromium	Copper	Iron	Lead	Mercury	Selenium	Silver	Total PCB	Dioxins Total 2,3,7,8- TCDD Equivalents
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Groundwater Cleanup Target Levels		200	6	10	2000	5	100	1000	300	15	2	50	100	0.5	30
Natural Attenuation Default Concentrations		2000	60	100	20000	50	1,000	10000	3000	150	20	500	1000	NA	NA
TMW-1	27-Feb-14	160 I	5.4 I	4.0 U	160	1.0 U	2.2 I	2.9 U	680	3.1 I	0.072 U	5.0 U	1.0 U	0.68 U	0.37
TMW-2	27-Feb-14	200	30	7.2 I	100	1.0 U	2.0 U	2.9 U	280	3.5 I	0.072 U	5.0 U	1.0 U	0.68 U	0.18
TMW-3	27-Feb-14	300	4.0 U	4.0 U	120	1.0 U	2.0 U	2.9 U	980	4.5 I	0.072 U	5.0 U	1.0 U	0.68 U	0.63
TMW-4	27-Feb-14	50 U	4.0 U	4.0 U	33	1.0 U	2.0 U	2.9 U	3300	2.0 U	0.072 U	5.0 U	1.0 U	0.68 U	0.28
MW-1	6-Jun-14	NS	8.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-2	6-Jun-14	25 I	NS	NS	NS	NS	NS	NS	1000	NS	NS	NS	NS	NS	NS
MW-3	6-Jun-14	NS	NS	NS	NS	NS	NS	NS	300	NS	NS	NS	NS	NS	NS

Notes -

µg/L - micrograms per liter

pg/L - picograms per liter

GCTLs = Groundwater Cleanup Target Levels specified in Table I of Chapter 62-777, F.A.C.

NADCs = Natural Attenuation Default Source Concentrations specified in Table V of Chapter 62-777, F.A.C.

** = As provided in Chapter 62-550, F.A.C.

U - Not detected at the laboratory method detection limit (MDL)

I - Estimated value, the reported value is between the MDL and the practical quantitation limit (PQL)

Bold - Indicates an exceedance of the applicable GCTL

NS = Not Sampled

TABLE 2 - SOIL ANALYTICAL SUMMARY (Metals, PCBs and Dioxins)

GERRY CURTIS PARK

Sample				Parameters														Comment
Sample Location/ Sample ID	Date Collected	Sample Interval (fbls)	Type of Solid Waste (SW) Observed	Aluminum	Antimony	Arsenic	Barium	Cadmium	Chromium	Copper	Iron	Lead	Mercury	Selenium	Silver	Total PCBs	Dioxins Total 2,3,7,8-TCDD Equivalents [#]	
				(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	
Direct Exposure Residential				80000	27	2.1	120**	82	310	150**	53000	400	3	440	410	0.5	7	
Direct Exposure Industrial				*	370	12	130000	1700	470	89000	*	1400	17	11000	8200	2.6	30	
Leachability Based on Groundwater Criteria				***	5.4	***	1600	7.5	38	***	***	2.1	5.2	17	17	3000		
Miami-Dade County Background Concentration				2656	NA	1.2	7	0.1	6.8	4.1	2176	26	0.08	<0.45 ^a	<0.025 ^a	NA	NA	
Baseball Field Perimeter December 2013 Samples																		
Curtis (4)(0-0.5)	23-Dec-13	0-0.5	SW	6200	17	28	870	5.8	55	4100	82000	2100/TCLP 0.24 I	0.22	NA	NA	NA	NA	
Source Removal Area																		
SB-4(1)	3-Feb-14	0-0.5	Glass	NA	3.1	16	57	NA	13	59	7100	130	NA	NA	NA	NA	NS	
SB-4(2)	3-Feb-14	0-0.5	Glass	NA	5.2	8.7	89	NA	14	92	11000	380	NA	NA	NA	NA	NS	
SB-4(3)	3-Feb-14	0-0.5	Metal & Glass	NA	2.0 I	8.4	56	NA	9.9	52	6700	160	NA	NA	NA	NA	NS	
SB-4(4)	3-Feb-14	0-0.5	No SW	NA	5.3	7.0	75	NA	25	78	8200	180	NA	NA	NA	NA	NS	Dilution X5
Area 1 - Baseball Field Perimeter																		
SB-18 (0-0.5)	25-Feb-14	0-0.5	No SW	2500	0.74 U	1.8	27	0.23 I	8.5	23	2300	24	0.032 I	0.79 I	0.28 U	NA	NA	
SB-18 (0.5-1.5)	25-Feb-14	0.5-1.5	No SW	900	0.55 U	0.71	7.1	0.12 I	5.8	3.2	750	7.4	0.012 U	0.40 U	0.41 U	NA	NA	Dilution X2 Silver
SB-18 (1.5-2)	25-Feb-14	1.5-2	SW	1600	4.4	5.2	80	0.55 I	9.5	48	6400	120	0.028 I	0.46 U	0.46 I	NA	NA	
SB-19 (0-0.75)	25-Feb-14	0-0.75	No SW	NA	3.0	10	61	NA	NA	130	11000	240	NA	NA	NA	NA	NA	
SB-19 (0.75-2)	25-Feb-14	0.75-2	SW	NA	18	27	700	NA	NA	540	89000	1700	NA	NA	NA	NA	NA	Dilution X5
SB-20 (0-0.5)	25-Feb-14	0-0.5	SW	2700	10 I	20	430	3.3	52	410	68000	1500	0.12	2.4 U	6.0 I	NA	11.69	Dilution X5
SB-20 (0.5-2)	25-Feb-14	0.5-2	SW	10000	21	46	2700	6.6	69	930	110000	3200	0.059	2.6 I	9.7	0.020U	48.12	
SB-21 (0-0.5)	25-Feb-14	0-0.5	Metal	NA	5.5	11	120	NA	NA	160	12000	340	NA	NA	NA	NA	NA	
SB-21 (0.5-2)	25-Feb-14	0.5-2	Metal & Glass	NA	20	20	1200	NA	NA	520	47000	4500	NA	NA	NA	NA	NA	Dilution x3
SB-22 (0-0.5)	25-Feb-14	0-0.5	No SW	1700	1.4 I	12	25	0.52 I	7.7	34	4400	82	0.018 I	0.39 U	0.20 U	NA	NA	
SB-22 (0.5-1.5)	25-Feb-14	0.5-1.5	No SW	1500	3.8	15	630	0.86	15	140	15000	320	0.075	0.42 U	0.50 I	NA	NA	
SB-22 (1.5-2)	25-Feb-14	1.5-2	SW	1500	4.1	19	100	1.3	15	130	21000	350	0.070	0.43 U	0.96 I	NA	NA	
SB-23 (0-0.5)	25-Feb-14	0-0.5	No SW	NA	1.7 I	6.4	51	NA	NA	53	6400	130	NA	NA	NA	NA	NA	
SB-23 (0.5-2)	25-Feb-14	0.5-2	SW	NA	15	32	530	NA	NA	400	87000	1700	NA	NA	NA	NA	NA	
SB-24 (0-0.5)	25-Feb-14	0-0.5	Metal & Glass	4200	3.6	12	79	0.87	20	120	13000	260	0.10	0.47 U	1.0 I	NA	NA	
SB-24 (0.5-2)	25-Feb-14	0.5-2	SW	6100	20	36	860	5.8	66	1200	130000	2700	0.063	3.5 U	4.7 I	NA	NA	Dilution x8
SB-25 (0-0.5)	25-Feb-14	0-0.5	No SW	NA	0.58 U	5.1	5.8	NA	NA	6.1	9300	12	NA	NA	NA	NA	NA	
SB-25 (0.5-2)	25-Feb-14	0.5-2	SW	NA	1.6 I	8.3	34	NA	NA	27	3500	61	NA	NA	NA	NA	NA	
SB-26 (0-0.5)	25-Feb-14	0-0.5	No SW	NA	1.4 I	5.1	50	NA	NA	46	5600	130	NA	NA	NA	NA	NA	1.64
SB-26 (0.5-1)	25-Feb-14	0.5-1	No SW	NA	5.4	12	71	NA	NA	88	19000	570	NA	NA	NA	NA	NA	
SB-26 (1-2)	25-Feb-14	1-2	SW	NA	53	57	1400	NA	NA	2500	180000	4800	NA	NA	NA	NA	20.91	
ROW - Samples #1 (NW 23rd Ave, South)																		
SB-69 (0-0.5)	26-Feb-14	0-0.5	No SW	NA	0.63 U	3.8	31	NA	NA	33	2900	78	NA	NA	NA	NA	NA	
SB-69 (0.5-1)	26-Feb-14	0.5-1	No SW	NA	0.59 U	0.82	8.5	NA	NA	0.78 I	950	2.3	NA	NA	NA	NA	NA	
SB-69 (1-2)	26-Feb-14	1-2	No SW	NA	0.61 I	4.3	23	NA	NA	10	3800	43	NA	NA	NA	NA	NA	
SB-70 (0-0.5)	26-Feb-14	0-0.5	No SW	NA	2.9	24	54	NA	NA	24	23000	370	NA	NA	NA	NA	21.33	
SB-70 (0.5-1)	26-Feb-14	0.5-1	Metal & Glass	NA	9.5 I	32	140	NA	NA	320	54000	1000	NA	NA	NA	NA	31.16	Dilution x5
SB-70 (1-2)	26-Feb-14	1-2	Metal & Glass	NA	69	77	1500	NA	NA	850	260000	4700	NA	NA	NA	0.026U	5.41	Dilution x20
SB-71 (0-0.5)	26-Feb-14	0-0.5	No SW	NA	0.82 I	3.2	27	NA	NA	31	2700	60	NA	NA	NA	NA	NA	
SB-71 (0.5-1)	26-Feb-14	0.5-1	No SW	NA	0.66 I	4.7	100	NA	NA	20	5400	240	NA	NA	NA	NA	NA	
SB-71 (1-2)	26-Feb-14	1-2	No SW	NA	2.2 I	5.8	48	NA	NA	45	11000	120	NA	NA	NA	NA	NA	
Baseball Field - December 2013 Samples																		
Curtis (3)(0-0.5)	23-Dec-13	0-0.5	SW	3100	50	12	170	1.5	27	190	22000	1600	0.17	NA	NA	NA	NA	

TABLE 2 - SOIL ANALYTICAL SUMMARY (Metals, PCBs and Dioxins)

GERRY CURTIS PARK

Sample				Parameters														Comment
Sample Location/ Sample ID	Date Collected	Sample Interval (fbls)	Type of Solid Waste (SW) Observed	Aluminum	Antimony	Arsenic	Barium	Cadmium	Chromium	Copper	Iron	Lead	Mercury	Selenium	Silver	Total PCBs	Dioxins Total 2,3,7,8-TCDD Equivalents [#]	
				(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	
Direct Exposure Residential				80000	27	2.1	120**	82	310	150**	53000	400	3	440	410	0.5	7	
Direct Exposure Industrial				*	370	12	130000	1700	470	89000	*	1400	17	11000	8200	2.6	30	
Leachability Based on Groundwater Criteria				***	5.4	***	1600	7.5	38	***	***	2.1	5.2	17	17	3000		
Miami-Dade County Background Concentration				2656	NA	1.2	7	0.1	6.8	4.1	2176	26	0.08	<0.45 ^a	<0.025 ^a	NA	NA	
Baseball Field - January 31, 2014 Samples																		
SB-8 (0-0.5)	31-Jan-14	0-0.5	No SW	NA	0.60 I	1.1	13	NA	NA	15	NA	35	NA	NA	NA	NA	NA	
SB-8 (0.5-2)	31-Jan-14	0.5-2	Metal, Glass & Tile	NA	580	26	1000	NA	NA	1600	NA	2600	NA	NA	NA	NA	NA	
SB-9 (0-0.5)	31-Jan-14	0-0.5	No SW	3200	9.0	8.9	200	2.4	44	160	34000	550	0.14	NA	NA	NA	NA	Dilution x10
SB-9 (0.5-2)	31-Jan-14	0.5-2	Metal & Glass	NA	9.6	8.6	200	NA	NA	120	NA	1300	NA	NA	NA	NA	NA	
SB-10 (0-0.5)	31-Jan-14	0-0.5	No SW	NA	0.55 U	4.9	8.4	NA	NA	1.7 I	NA	3.7	NA	NA	NA	NA	NA	
SB-10 (0.5-2)	31-Jan-14	0.5-2	No SW	NA	6.7	16	210	NA	NA	260	NA	490	NA	NA	NA	NA	NA	
SB-11 (0-0.5)	31-Jan-14	0-0.5	No SW	NA	0.60 U	5.1	18	NA	NA	16	NA	42	NA	NA	NA	NA	NA	
SB-11 (0.5-2)	31-Jan-14	0.5-2	Metal & Glass	NA	9.5	14	370	NA	NA	1400	NA	670	NA	NA	NA	NA	NA	
SB-12 (0-0.5)	31-Jan-14	0-0.5	No SW	3800	9.0	14	270	2.2	37	1100	21000	710	0.12	NA	NA	NA	NA	
SB-12 (0.5-2)	31-Jan-14	0.5-2	Metal & Glass	NA	35	20	730	NA	NA	490	NA	1800	NA	NA	NA	NA	NA	
SB-13 (0-0.5)	31-Jan-14	0-0.5	No SW	NA	1.1 U	5.9	5.4	NA	NA	1.1 I	NA	3.1	NA	NA	NA	NA	NA	
SB-13 (0.5-2)	31-Jan-14	0.5-2	SW	NA	15	30	660	NA	NA	2000	NA	1400	NA	NA	NA	NA	NA	
SB-14 (0-0.5)	31-Jan-14	0-0.5	No SW	NA	0.60 U	3.7	8.2	NA	NA	11	NA	20	NA	NA	NA	NA	NA	
SB-14 (0.5-2)	31-Jan-14	0.5-2	Metal & Glass	NA	18	13	150	NA	NA	140	NA	260	NA	NA	NA	NA	NA	
SB-15 (0-0.5)	31-Jan-14	0-0.5	No SW	2200	0.78 I	20	21	0.51 I	12	28	4300	70	0.042	NA	NA	NA	NA	
SB-15 (0.5-2)	31-Jan-14	0.5-2	Metal & Glass	NA	21	43	1200	NA	NA	830	NA	2900	NA	NA	NA	NA	NA	
SB-16 (0-0.5)	31-Jan-14	0-0.5	No SW	NA	0.59 U	4.7	8.9	NA	NA	6.4	NA	11	NA	NA	NA	NA	NA	
SB-16 (0.5-2)	31-Jan-14	0.5-2	Metal & Glass	NA	4.1	14	160	NA	NA	120	NA	500	NA	NA	NA	NA	NA	
SB-17 (0-0.5)	31-Jan-14	0-0.5	No SW	NA	0.59 U	5.7	8.5	NA	NA	9.8	NA	19	NA	NA	NA	NA	NA	
SB-17 (0.5-2)	31-Jan-14	0.5-2	No SW	NA	6.2	28	240	NA	NA	290	NA	480	NA	NA	NA	NA	NA	
Area 2 - Baseball Field																		
SB-27 (0-1)	25-Feb-14	0-1	No SW	NA	2.2 I	8.3	45	NA	NA	61	6700	150	NA	NA	NA	NA	NA	
SB-27 (1-1.5)	25-Feb-14	1-1.5	No SW	NA	9.2	13	28	NA	NA	52	6500	150	NA	NA	NA	NA	NA	
SB-27 (1.5-2)	25-Feb-14	1.5-2	SW	NA	39	41	1500	NA	NA	3800	160000	3400	NA	NA	NA	0.023U	NA	
SB-28 (0-0.5)	25-Feb-14	0-0.5	No SW	NA	0.76 I	2.1	44	NA	NA	22	2900	34	NA	NA	NA	NA	2.23	
SB-28 (0.5-2)	25-Feb-14	0.5-2	SW	NA	16	17	590	NA	NA	870	24000	490	NA	NA	NA	NA	5.50	
SB-29 (0-1)	25-Feb-14	0-1	No SW	NA	1.9 I	7.8	50	NA	NA	52	7500	140	NA	NA	NA	NA	NA	
SB-29 (1-2)	25-Feb-14	1-2	No SW	NA	2.0 I	11	36	NA	NA	50	10000	170	NA	NA	NA	NA	NA	
SB-30 (0-1)	25-Feb-14	0-1	No SW	NA	0.58 U	13	6.6	NA	NA	5.0	10000	12	NA	NA	NA	NA	4.70	
SB-30 (1-2)	25-Feb-14	1-2	SW	NA	8.0	120	120	NA	NA	240	15000	300	NA	NA	NA	NA	8.08	
SB-31 (0-1)	25-Feb-14	0-1	No SW	NA	0.86 I	21	26	NA	NA	40	7300	70	NA	NA	NA	NA	NA	
SB-31 (1-2)	25-Feb-14	1-2	Metal & Glass	NA	3.2	16	84	NA	NA	140	16000	340	NA	NA	NA	NA	NA	
Playground December 2013 Samples																		
Curtis (1)(0-0.5)	23-Dec-13	0-0.5	SW	960	1.1 I	2.8	39	0.29 I	13	39	5600	72	0.022 I	NA	NA	NA	NA	
Curtis (2)(0-0.5)	23-Dec-13	0-0.5	SW	1000	2.9	5.4	94	0.56	7.6	62	11000	290	0.012 I	NA	NA	NA	NA	

TABLE 2 - SOIL ANALYTICAL SUMMARY (Metals, PCBs and Dioxins)

GERRY CURTIS PARK

Sample				Parameters														Comment	
Sample Location/ Sample ID	Date Collected	Sample Interval (fbls)	Type of Solid Waste (SW) Observed	Aluminum	Antimony	Arsenic	Barium	Cadmium	Chromium	Copper	Iron	Lead	Mercury	Selenium	Silver	Total PCBs	Dioxins Total 2,3,7,8-TCDD Equivalents [#]		
				(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)		(ng/Kg)
Direct Exposure Residential				80000	27	2.1	120**	82	310	150**	53000	400	3	440	410	0.5	7		
Direct Exposure Industrial				*	370	12	130000	1700	470	89000	*	1400	17	11000	8200	2.6	30		
Leachability Based on Groundwater Criteria				***	5.4	***	1600	7.5	38	***	***	2.1	5.2	17	17	3000			
Miami-Dade County Background Concentration				2656	NA	1.2	7	0.1	6.8	4.1	2176	26	0.08	<0.45 ^a	<0.025 ^a	NA	NA		
Area 3 - Playground																			
SB-32 (0-0.5)	26-Feb-14	0-0.5	No SW	1100	3.0	5.6	87	0.48 l	14	55	8600	210	0.29 l	0.43 U	0.38 l	NA	NA		
SB-32 (0.5-1)	26-Feb-14	0.5-1	Metal & Glass	960	64	21	98	0.60	18	220	10000	310	0.29 l	0.40 U	0.50 l	NA	NA		
SB-32 (1-2)	26-Feb-14	1-2	Metal & Glass	5600	20	39	2600	5.9	20	72	39	890	98000	0.060	2.1 U	6.0	0.020U	NA	Dilution x5
SB-33 (0-0.5)	26-Feb-14	0-0.5	No SW	NA	0.49 U	1.5	12	NA	NA	9.0	1600	30	NA	NA	NA	NA	1.12		
SB-33 (0.5-1)	26-Feb-14	0.5-1	Metal & Glass	NA	6.3	9.7	380	NA	NA	180	16000	1500	NA	NA	NA	NA	NA		
SB-33 (1-2)	26-Feb-14	1-2	Metal & Glass	NA	14	20	730	NA	NA	1000	50000	3000	NA	NA	NA	NA	20.08	Dilution x5	
SB-34 (0-0.5)	26-Feb-14	0-0.5	Metal & Glass	860	1.8 l	8.1	48	0.48 l	7.5	48	8300	170	0.059	0.39 U	0.35 l	NA	NA		
SB-34 (0.5-1)	26-Feb-14	0.5-1	No SW	2200	5.2	15	180	1.0	16	140	15000	620	0.050	0.41 U	0.93 l	NA	NA		
SB-34 (1-2)	26-Feb-14	1-2	Metal & Glass	2100	13	12	430	1.5	18	210	24000	1200	0.017 l	0.77 U	1.8 l	NA	NA	Dilution x2	
SB-35 (0-0.5)	26-Feb-14	0-0.5	No SW	NA	1.3 l	3.2	110	NA	NA	35	5200	150	NA	NA	NA	NA	NA		
SB-35 (0.5-1.5)	26-Feb-14	0.5-1	No SW	NA	0.81 l	2.5	34	NA	NA	21	1700	260	NA	NA	NA	NA	NA		
SB-35 (1.5-2)	26-Feb-14	1-2	Metal & Glass	NA	23	50	1400	NA	NA	760	61000	5900	NA	NA	NA	NA	NA	Dilution x5	
Area 3A - Playground																			
SB-36 (0-0.5)	26-Feb-14	0-0.5	No SW	1600	1.3 l	2.4	46	0.31 l	7.5	33	3600	92	0.012 U	0.38 U	0.20 U	NA	0.90		
SB-36 (0.5-1)	26-Feb-14	0.5-1	No SW	2300	9.9 l	26	330	2.3 l	32	250	47000	1100	0.20	2.4 U	1.9 l	NA	NA	Dilution x5	
SB-36 (1-2)	26-Feb-14	1-2	SW	6100	20	32	2900	5.2	79	1200	90000	2900	0.20	2.5 U	5.1 l	0.023U	17.76	Dilution x5	
SB-37 (0-0.5)	26-Feb-14	0-0.5	No SW	NA	2.2 l	8.0	79	NA	NA	58	5900	160	NA	NA	NA	NA	NA		
SB-37 (0.5-1.5)	26-Feb-14	0.5-1	No SW	NA	1.4 l	16	94	NA	NA	33	9600	82	NA	NA	NA	NA	NA		
SB-37 (1.5-2)	26-Feb-14	1-2	Metal & Glass	NA	5.3 l	14	140	NA	NA	170	30000	560	NA	NA	NA	NA	NA	Dilution x5	
SB-38 (0-0.5)	26-Feb-14	0-0.5	No SW	2300	5.2	10	540	1.6	19	160	16000	450	0.15	0.69 l	1.1 l	NA	10.67		
SB-38 (0.5-1)	26-Feb-14	0.5-1	SW	3400	9.5 l	44	740	2.2 l	41	430	56000	1400	0.11	2.2 U	2.7 l	NA	16.21	Dilution x5	
SB-38 (1-2)	26-Feb-14	1-2	SW	4600	18 l	43	1000	10	75	2300	140000	2700	0.035	4.3 U	5.6 l	NA	NA	Dilution x10	
SB-39 (0-0.5)	26-Feb-14	0-0.5	No SW	NA	1.1 l	1.7	21	NA	NA	35	990	24	NA	NA	NA	NA	NA		
SB-39 (0.5-2)	26-Feb-14	0.5-1	No SW	NA	2.7	6.4	160	NA	NA	72	12000	210	NA	NA	NA	NA	NA		
Courts December 2013 Samples																			
Curtis (6)(0-0.5)	23-Dec-13	0-0.5	SW	1900	8.4	16	290	1.5	23	210	38000	640	0.059	NA	NA	NA	NA		
Curtis (7)(0-0.5)	23-Dec-13	0-0.5	SW	2300	7.5	18	110	1.5	23	150	30000	570	0.15	NA	NA	NA	NA		

TABLE 2 - SOIL ANALYTICAL SUMMARY (Metals, PCBs and Dioxins)

GERRY CURTIS PARK

Sample				Parameters														Comment
Sample Location/ Sample ID	Date Collected	Sample Interval (fbls)	Type of Solid Waste (SW) Observed	Aluminum	Antimony	Arsenic	Barium	Cadmium	Chromium	Copper	Iron	Lead	Mercury	Selenium	Silver	Total PCBs	Dioxins Total 2,3,7,8-TCDD Equivalents [#]	
				(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	
Direct Exposure Residential				80000	27	2.1	120**	82	310	150**	53000	400	3	440	410	0.5	7	
Direct Exposure Industrial				*	370	12	130000	1700	470	89000	*	1400	17	11000	8200	2.6	30	
Leachability Based on Groundwater Criteria				***	5.4	***	1600	7.5	38	***	***	2.1	5.2	17	17	3000		
Miami-Dade County Background Concentration				2656	NA	1.2	7	0.1	6.8	4.1	2176	26	0.08	<0.45 ^a	<0.025 ^a	NA	NA	
Area 4 - Courts																		
SB-40 (0-0.5)	24-Feb-14	0-0.5	Metal & Glass	NA	15	35	860	NA	NA	580	82000	2700	NA	NA	NA	NA	NA	Dilution x5
SB-40 (0.5-1)	24-Feb-14	0.5-1	No SW	NA	7.3	17	310	NA	NA	170	16000	580	NA	NA	NA	NA	NA	
SB-40 (1-2)	24-Feb-14	1-2	Metal & Glass	NA	11	20	650	NA	NA	260	38000	1800	NA	NA	NA	NA	NA	Dilution x5
SB-41 (0-0.5)	24-Feb-14	0-0.5	No SW	NA	2.1 I	6.5	46	NA	NA	88	8600	140	NA	NA	NA	NA	NA	
SB-41 (0.5-1)	24-Feb-14	0.5-1	No SW	NA	0.54 U	0.83	8.5	NA	NA	2.7	770	4.5	NA	NA	NA	NA	NA	
SB-41 (1-2)	24-Feb-14	1-2	Metal	NA	0.56 U	0.26 U	2.4	NA	NA	0.56 U	850	1.2	NA	NA	NA	NA	NA	
SB-42 (0-0.5)	24-Feb-14	0-0.5	No SW	NA	0.69 I	4.0	20	NA	NA	24	2000	47	NA	NA	NA	NA	5.71	
SB-42 (0.5-1)	24-Feb-14	0.5-1	No SW	NA	0.62 U	2.8	18	NA	NA	18	1500	32	NA	NA	NA	NA	NA	
SB-42 (1-1.5)	24-Feb-14	1-1.5	No SW	NA	13	11	350	NA	NA	310	30000	930	NA	NA	NA	NA	NA	
SB-42 (1.5-2)	24-Feb-14	1.5-2	SW	NA	6.6 I	17	320	NA	NA	3300	31000	400	NA	NA	NA	NA	18.90	
SB-43 (0-0.5)	24-Feb-14	0-0.5	No SW	NA	1.0 I	5.5	42	NA	NA	39	3300	60	NA	NA	NA	NA	NA	
SB-43 (0.5-1)	24-Feb-14	0.5-1	No SW	NA	1.1 I	2.6	33	NA	NA	22	2900	82	NA	NA	NA	NA	NA	
SB-43 (1-2)	24-Feb-14	1-2	Metal & Glass	NA	15	37	580	NA	NA	560	41000	1700	NA	NA	NA	NA	NA	Dilution x5
SB-44 (0-0.5)	24-Feb-14	0-0.5	No SW	NA	1.5 I	5.3	36	NA	NA	55	4400	100	NA	NA	NA	NA	1.88	
SB-44 (0.5-1)	24-Feb-14	0.5-1	No SW	NA	1.6 I	3.6	48	NA	NA	45	4700	130	NA	NA	NA	NA	NA	
SB-44 (1-2)	24-Feb-14	1-2	Metal & Glass	NA	35	68	1400	NA	NA	1400	140000	3100	NA	NA	NA	NA	22.06	Dilution x10
SB-45 (0-0.5)	24-Feb-14	0-0.5	No SW	NA	12	10	90	NA	NA	91	8500	1100	NA	NA	NA	NA	NA	
SB-45 (0.5-1)	24-Feb-14	0.5-1	No SW	NA	3.2	9.2	86	NA	NA	81	9000	380	NA	NA	NA	NA	NA	
SB-45 (1-2)	24-Feb-14	1-2	SW	NA	23	54	1800	NA	NA	890	99000	5900	NA	NA	NA	0.021U	NA	Dilution x5
ROW - Samples #3 (NW 20th Street)																		
SB-80 (0-0.5)	26-Feb-14	0-0.5	No SW	NA	29	35	480	NA	NA	440	69000	3000	NA	NA	NA	0.021U	4.71	Dilution x5
SB-80 (0.5-1)	26-Feb-14	0.5-1	Metal & Glass	NA	170	33	500	NA	NA	760	71000	1300	NA	NA	NA	NA	1.97	Dilution x5
SB-80 (1-2)	26-Feb-14	1-2	Metal & Glass	NA	5.2	11	200	NA	NA	120	17000	340	NA	NA	NA	NA	NA	
SB-81 (0-0.5)	26-Feb-14	0-0.5	No SW	NA	3.3	5.7	110	NA	NA	110	11000	420	NA	NA	NA	NA	NA	
SB-81 (0.5-1)	26-Feb-14	0.5-1	Metal & Glass	NA	53	13	340	NA	NA	270	25000	2200	NA	NA	NA	NA	NA	
SB-81 (1-2)	26-Feb-14	1-2	Metal & Glass	NA	11	21	500	NA	NA	310	29000	860	NA	NA	NA	NA	NA	
Western Bleachers December 2013 Samples																		
Curtis (5)(0-0.5)	23-Dec-13	0-0.5	SW	1800	3.4	9.5	130	0.89	14	110	10000	280	0.043	NA	NA	NA	NA	
Area 5 - Western Bleachers																		
SB-46 (0-0.5)	25-Feb-14	0-0.5	Metal & Glass	NA	33	27	620	NA	NA	510	45000	1200	NA	NA	NA	NA	NA	Dilution x5
SB-46(0.5-2)	25-Feb-14	0.5-2	Metal & Glass	NA	27	31	820	NA	NA	980	100000	2300	NA	NA	NA	NA	NA	Dilution x5
SB-49 (0-0.5)	25-Feb-14	0-0.5	Metal & Glass	2800	5.9	12	220	1.3	24	140	17000	430	0.037	0.44 U	0.89 I	NA	NA	
SB-49 (0.5-2)	25-Feb-14	0.5-2	Metal & Glass	NA	14	19	710	NA	NA	270	61000	1500	NA	NA	NA	NA	NA	Dilution x5

TABLE 2 - SOIL ANALYTICAL SUMMARY (Metals, PCBs and Dioxins)

GERRY CURTIS PARK

Sample				Parameters														Comment
Sample Location/ Sample ID	Date Collected	Sample Interval (fbls)	Type of Solid Waste (SW) Observed	Aluminum	Antimony	Arsenic	Barium	Cadmium	Chromium	Copper	Iron	Lead	Mercury	Selenium	Silver	Total PCBs	Dioxins Total 2,3,7,8-TCDD Equivalents [#]	
				(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	
Direct Exposure Residential				80000	27	2.1	120**	82	310	150**	53000	400	3	440	410	0.5	7	
Direct Exposure Industrial				*	370	12	130000	1700	470	89000	*	1400	17	11000	8200	2.6	30	
Leachability Based on Groundwater Criteria				***	5.4	***	1600	7.5	38	***	***	2.1	5.2	17	17	3000		
Miami-Dade County Background Concentration				2656	NA	1.2	7	0.1	6.8	4.1	2176	26	0.08	<0.45 ^a	<0.025 ^a	NA	NA	
Area 5A - Western Bleachers																		
SB-47 (0-1)	26-Feb-14	0-1	Metal & Glass	1700	0.87 l	7.1	41	0.64	15	32	3800	92	0.17	0.62 l	0.55 l	NA	NA	
SB-47 (1-2)	26-Feb-14	1-2	Metal & Glass	NA	17	34	650	NA	NA	420	110000	2300	NA	NA	NA	0.018U	NA	Dilution x5
SB-48 (0-0.5)	26-Feb-14	0-0.5	No SW	NA	0.64 U	3.4	21	NA	NA	19	3300	24	NA	NA	NA	NA	NA	
SB-48 (0.5-1.5)	26-Feb-14	0.5-1.5	No SW	NA	0.52 U	1.7	9.4	NA	NA	7.8	1100	12	NA	NA	NA	NA	NA	
SB-48 (1.5-2)	26-Feb-14	1.5-2	Metal & Glass	NA	6.2	40	140	NA	NA	140	28000	250	NA	NA	NA	NA	NA	Dilution x2
Area 6 - Football Field																		
SB-50 (0-0.5)	24-Feb-14	0-0.5	No SW	2500	1.2 l	10	38	0.42 l	15	35	5700	170	0.059	0.44 U	0.48 l	NA	NA	
SB-50 (0.5-1.5)	24-Feb-14	0.5-1.5	No SW	NA	0.55 U	1.4	7.0	NA	NA	3.5	2100	7.9	NA	NA	NA	NA	NA	
SB-50 (1.5-2)	24-Feb-14	1.5-2	Metal & Glass	NA	13	27	470	NA	NA	280	110000	1100	NA	NA	NA	0.020U	NA	
SB-51 (0-1)	24-Feb-14	0-1	No SW	NA	2.9	33	110	NA	NA	81	7800	310	NA	NA	NA	NA	NA	
SB-51 (1-2)	24-Feb-14	1-2	Metal & Glass	NA	9.2	20	530	NA	NA	400	41000	780	NA	NA	NA	NA	NA	
SB-52 (0-2)	24-Feb-14	0-2	No SW	2000	1.4 l	15	46	0.25 l	7.8	39	9600	95	0.030 l	0.44 U	0.23 U	NA	NA	
SB-53 (0-0.5)	24-Feb-14	0-0.5	Glass	NA	5.9 l	17	84	NA	NA	95	40000	370	NA	NA	NA	NA	NA	
SB-53 (0.5-2)	24-Feb-14	0.5-2	Glass	NA	1.8 l	11	66	NA	NA	42	5000	110	NA	NA	NA	NA	NA	
SB-54 (0-0.5)	24-Feb-14	0-0.5	No SW	NA	2.0 l	8.6	63	NA	NA	69	7000	120	NA	NA	NA	NA	NA	
SB-54 (0.5-1)	24-Feb-14	0.5-1	No SW	NA	6.2	14	140	NA	NA	220	33000	320	NA	NA	NA	NA	NA	
SB-54 (1-2)	24-Feb-14	1-2	Metal & Glass	NA	4.4	8.1	130	NA	NA	90	12000	290	NA	NA	NA	NA	NA	
SB-55 (0-0.5)	24-Feb-14	0-0.5	No SW	NA	0.69 U	4.5	27	NA	NA	15	3100	40	NA	NA	NA	NA	NA	
SB-55 (0.5-1.5)	24-Feb-14	0.5-1.5	No SW	NA	1.6 l	4.2	34	NA	NA	58	6900	55	NA	NA	NA	NA	NA	
SB-55 (1.5-2)	24-Feb-14	1.5-2	Metal & Glass	NA	1.8 l	3.3	47	NA	NA	41	6400	100	NA	NA	NA	NA	NA	
SB-56 (0-2)	24-Feb-14	0-2	Metal & Glass	1300	3.2	28	78	0.38 l	9.1	71	7800	170	0.040	0.42 U	0.43 l	NA	NA	
SB-57 (0-2)	24-Feb-14	0-2	No SW	1200	0.57 U	11	23	0.72	12	21	2700	38	0.28	0.42 U	1.6	NA	NA	
ROW - Samples #2 (NW 23rd Ave, North)																		
SB-72 (0-0.5)	26-Feb-14	0-0.5	Glass	NA	10	23	420	NA	NA	350	29000	840	NA	NA	NA	NA	13.12	
SB-72 (0.5-1)	26-Feb-14	0.5-1	Glass	NA	130	21	420	NA	NA	380	25000	2700	NA	NA	NA	0.019U	12.95	
SB-72 (1-2)	26-Feb-14	1-2	Glass	NA	7.5	9.9	220	NA	NA	150	11000	2700	NA	NA	NA	NA	NA	
SB-73 (0-0.5)	26-Feb-14	0-0.5	Metal & Glass	NA	6.6	12	160	NA	NA	540	19000	280	NA	NA	NA	NA	NA	
SB-73 (0.5-1)	26-Feb-14	0.5-1	Metal & Glass	NA	7.9 l	12	340	NA	NA	160	36000	360	NA	NA	NA	NA	NA	Dilution X5
SB-73 (1-2)	26-Feb-14	1-2	Metal	NA	5.9	13	120	NA	NA	130	21000	260	NA	NA	NA	NA	NA	
SB-74 (0-0.5)	26-Feb-14	0-0.5	No SW	NA	2.4	20	50	NA	NA	130	15000	250	NA	NA	NA	NA	NA	
SB-74 (0.5-1)	26-Feb-14	0-0.5	No SW	NA	2.1 l	22	33	NA	NA	51	6300	90	NA	NA	NA	NA	NA	
SB-74 (1-2)	26-Feb-14	1-2	Glass	NA	1.7 l	24	30	NA	NA	43	4900	78	NA	NA	NA	NA	NA	
SB-75 (0-0.5)	26-Feb-14	0-0.5	No SW	NA	1.5 l	12	40	NA	NA	73	6000	110	NA	NA	NA	NA	NA	
SB-75 (0.5-1)	26-Feb-14	0.5-1	Glass	NA	0.73 l	7.4	24	NA	NA	38	4800	57	NA	NA	NA	NA	NA	
SB-75 (1-2)	26-Feb-14	1-2	Glass	NA	1.4 l	14	23	NA	NA	49	8400	92	NA	NA	NA	NA	NA	
SB-76 (0-0.5)	26-Feb-14	0-0.5	No SW	NA	2.9	5.9	51	NA	NA	55	4300	100	NA	NA	NA	NA	NA	
SB-76 (0.5-1)	26-Feb-14	0.5-1	No SW	NA	13	6.9	47	NA	NA	88	12000	560	NA	NA	NA	NA	NA	
SB-76 (1-2)	26-Feb-14	1-2	Glass	NA	4.1	5.5	120	NA	NA	240	11000	200	NA	NA	NA	NA	NA	

TABLE 2 - SOIL ANALYTICAL SUMMARY (Metals, PCBs and Dioxins)

GERRY CURTIS PARK

Sample				Parameters														Comment
Sample Location/ Sample ID	Date Collected	Sample Interval (fbls)	Type of Solid Waste (SW) Observed	Aluminum	Antimony	Arsenic	Barium	Cadmium	Chromium	Copper	Iron	Lead	Mercury	Selenium	Silver	Total PCBs	Dioxins Total 2,3,7,8-TCDD Equivalents [#]	
				(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	
Direct Exposure Residential				80000	27	2.1	120**	82	310	150**	53000	400	3	440	410	0.5	7	
Direct Exposure Industrial				*	370	12	130000	1700	470	89000	*	1400	17	11000	8200	2.6	30	
Leachability Based on Groundwater Criteria				***	5.4	***	1600	7.5	38	***	***	2.1	5.2	17	17	3000		
Miami-Dade County Background Concentration				2656	NA	1.2	7	0.1	6.8	4.1	2176	26	0.08	<0.45 ^a	<0.025 ^a	NA	NA	
ROW - Samples #3 (NW 20th Street)																		
SB-77 (0-0.5)	26-Feb-14	0-0.5	No SW	NA	5.6	26	80	NA	NA	75	8200	190	NA	NA	NA	NA	NA	
SB-77 (0.5-1)	26-Feb-14	0.5-1	No SW	NA	1.3 I	12	20	NA	NA	25	4600	56	NA	NA	NA	NA	NA	
SB-77 (1-2)	26-Feb-14	1-2	No SW	NA	4.4	10	94	NA	NA	71	6800	170	NA	NA	NA	NA	NA	
SB-78 (0-0.5)	26-Feb-14	0-0.5	Metal & Glass	NA	3.4	6.8	69	NA	NA	78	8300	170	NA	NA	NA	NA	NA	
SB-78 (0.5-1)	26-Feb-14	0.5-1	Metal & Glass	NA	6.2	12	130	NA	NA	80	11000	220	NA	NA	NA	NA	NA	
SB-78 (1-2)	26-Feb-14	1-2	Metal & Glass	NA	4.7	12	82	NA	NA	100	6300	180	NA	NA	NA	NA	NA	
SB-79 (0-0.5)	26-Feb-14	0-0.5	Metal & Glass	NA	9.2	29	350	NA	NA	260	37000	780	NA	NA	NA	NA	NA	Dilution x3
SB-79 (0.5-1)	26-Feb-14	0.5-1	Metal & Glass	NA	13	24	390	NA	NA	370	39000	1200	NA	NA	NA	0.020U	NA	Dilution x3
SB-79 (1-1.5)	26-Feb-14	1-1.5	Metal & Glass	NA	7.1	13	250	NA	NA	300	20000	530	NA	NA	NA	NA	NA	
Area 7 - Pool																		
SB-58 (0-0.5)	24-Feb-14	0-0.5	No SW	3500	10	130	300	3.2	32	770	31000	970	0.24	0.86 U	3.2	NA	NA	Dilution x2
SB-58 (0.5-2)	24-Feb-14	0.5-2	Metal & Glass	NA	46	420	810	NA	NA	750	100000	2200	NA	NA	NA	NA	NA	Dilution x5
SB-59 (0-0.5)	24-Feb-14	0-0.5	No SW	NA	4.7	8.3	25	NA	NA	50	6000	350	NA	NA	NA	NA	NA	
SB-59 (0.5-2)	24-Feb-14	0.5-2	No SW	NA	0.62 U	5.6	16	NA	NA	30	3100	70	NA	NA	NA	NA	NA	
SB-60 (0-0.5)	24-Feb-14	0-0.5	No SW	1400	5.8	6.2	110	1.0	14	120	9900	430	0.18	0.44 U	0.65 I	NA	NA	
SB-60 (0.5-2)	24-Feb-14	0.5-2	Metal & Glass	NA	110	50	180	NA	NA	150	19000	2300	NA	NA	NA	0.019U	NA	
SB-61 (0-2)	24-Feb-14	0-2	No SW	NA	0.54 U	1.5	13	NA	NA	15	1600	32	NA	NA	NA	NA	NA	
SB-62 (0-2)	24-Feb-14	0-2	No SW	1400	0.51 U	1.2	7.9	0.16 I	6.4	11	1200	31	0.063	0.38 U	0.19 U	NA	NA	
SB-63 (0-2)	24-Feb-14	0-2	No SW	NA	0.56 U	1.3	6.3	NA	NA	8.0	1600	15	NA	NA	NA	NA	NA	
SB-64 (0-2)	24-Feb-14	0-2	No SW	NA	1.2 I	3.3	26	NA	NA	18	2700	60	NA	NA	NA	NA	NA	
SB-82 (0-0.5)	3-Jun-14	0-0.5	No SW	NA	5.6	6.6	100	NA	NA	62	5500	190	NA	NA	NA	NA	NA	
SB-82 (0.5-2)	3-Jun-14	0.5-2	No SW	NA	0.87 I	1.4	48	NA	NA	20	1500	53	NA	NA	NA	NA	NA	
SB-83 (0-0.5)	3-Jun-14	0-0.5	No SW	NA	5.1	13	110	NA	NA	150	11000	380	NA	NA	NA	NA	NA	
SB-83 (0.5-2)	3-Jun-14	0.5-2	No SW	NA	2.3	25	49	NA	NA	33	3700	110	NA	NA	NA	NA	NA	
SB-84 (0-0.5)	3-Jun-14	0-0.5	No SW	NA	0.54 U	1.2	9.4	NA	NA	16	1300	36	NA	NA	NA	NA	NA	
SB-84 (0.5-2)	3-Jun-14	0.5-2	No SW	NA	3.6	5	59	NA	NA	45	5200	220	NA	NA	NA	NA	NA	
SB-85 (0-0.5)	3-Jun-14	0-0.5	No SW	NA	2.2	2.5	38	NA	NA	38	3000	88	NA	NA	NA	NA	NA	
SB-85 (0.5-2)	3-Jun-14	0.5-2	No SW	NA	2.4	2.3	44	NA	NA	36	4200	94	NA	NA	NA	NA	NA	
SB-86 (0-0.5)	3-Jun-14	0-0.5	No SW	NA	0.66 U	2	16	NA	NA	23	1400	21	NA	NA	NA	NA	NA	
SB-86 (0.5-2)	3-Jun-14	0.5-2	No SW	NA	0.90 I	1.9	6.4	NA	NA	21	8100	28	NA	NA	NA	NA	NA	
SB-87 (0-0.5)	3-Jun-14	0-0.5	No SW	NA	0.62 U	2.8	16	NA	NA	19	1800	49	NA	NA	NA	NA	NA	
SB-87 (0.5-2)	3-Jun-14	0.5-2	No SW	NA	0.56 U	0.81	6.3	NA	NA	4.3	850	11	NA	NA	NA	NA	NA	
SB-88 (0-0.5)	3-Jun-14	0-0.5	No SW	NA	0.59 U	3.1	12	NA	NA	17	1600	15	NA	NA	NA	NA	NA	
SB-88 (0.5-2)	3-Jun-14	0.5-2	No SW	NA	0.54 U	0.71	7.4	NA	NA	5.7	540	19	NA	NA	NA	NA	NA	
Area 8 - Eastern Parking Lot																		
SB-65 (0-0.5)	25-Feb-14	0-0.5	No SW	NA	0.58 U	2.5	13	NA	NA	26	2000	40	NA	NA	NA	NA	NA	
SB-65 (0.5-1)	25-Feb-14	0.5-1	Metal	NA	0.67 I	3.2	19	NA	NA	36	12000	38	NA	NA	NA	NA	NA	
SB-65 (1-2)	25-Feb-14	1-2	No SW	NA	0.60 U	1.1	8.0	NA	NA	7.2	2400	11	NA	NA	NA	NA	NA	
SB-66 (0-2)	25-Feb-14	0-2	No SW	1300	0.52 U	1.4	7.3	0.18 I	5.3	8.0	1500	62	0.042	0.38 U	0.20 U	NA	NA	
SB-67 (0-2)	25-Feb-14	0-2	Metal	1400	0.55 U	2.9	17	0.23 I	6.3	8.1	4000	20	0.044	0.40 U	0.42 U	NA	NA	
SB-68 (0-2)	25-Feb-14	0-2	No SW	NA	0.55 U	0.69	6.8	NA	NA	2.7	690	5.8	NA	NA	NA	NA	NA	

Notes -

mg/kg - milligrams per kilogram
 ng/kg - nanograms per kilogram
 U - Not detected at the laboratory method detection limit (MDL)
 I - Estimated value, the reported value is between the MDL and the practical quantitation limit (PQL)
Bold - Indicates an exceedance of the residential direct exposure soil cleanup target level (SCTL)
 SCTLs = Soil Cleanup Target Levels specified in Table II of Chapter 24, Miami-Dade County Code
Italics - Indicates an exceedance of the leachability based on the groundwater criteria
 NA = Not Analyzed or Not Available
 fbls = Feet below land surface
SW = Observation of ash, metal and glass.
 H = samples on Hold with laboratory

[#] = 2,3,7,8-TCDD equivalents calculated by the laboratory using the 2005 World Health Organization toxicity equivalency factors
 Tabulated laboratory data has been rounded as specified in FDEP Memorandum "Rounding Analytical Data for Site Rehabilitation Completion" dated November 17, 2011

* = Contaminant is not a health concern for this exposure scenario
 ** = Direct exposure value based on acute toxicity considerations. This criterion is applicable in scenarios where children might be exposed to soils (e.g. residences, schools, playgrounds)
 *** = Leachability value may be determined using Synthetic Precipitate Leachate Procedure (SPLP) or TCLP, in the event of an oil waste.
^a = Data for selenium and silver were not analyzed statistically, Soil Reuse Guidance for Miami-Dade County, SWP Guidance No.1 March 22, 2004

ATTACHMENT A
REGULATORY CORRESPONDENCE



Carlos A. Gimenez, Mayor

Department of Regulatory and Economic Resources

Environmental Resources Management

701 NW 1st Court, 4th Floor

Miami, Florida 33136-3912

T 305-372-6700 F 305-372-6982

miamidade.gov

May 29, 2014

CERTIFIED MAIL NO: 7011 0470 0002 4386 3776
RETURN RECEIPT REQUESTED

Alice Bravo, P.E.
Assistant City Manager - Chief of Infrastructure
City of Miami
444 SW 2nd Avenue
Miami, FL 33130

Re: Site Assessment Report dated April 21, 2014 and submitted by SCS Consultants for the City of Miami (the City) Curtis Park (HWR-777) located at, near or in the vicinity of 1901 NW 24 Ave, Miami, Florida.

Dear Ms. Bravo:

The Department of Regulatory and Economic Resources' Division of Environmental Resources Management (DERM) has reviewed the referenced report received on April 23, 2014 and finds that additional assessment is required. Specifically;

Groundwater

1. The concentrations of antimony and aluminum in temporary monitory wells TMW-2 and TMW-3, respectively, exceeds the groundwater cleanup target level; additionally, the concentration of iron in TMW-3 and TMW-4 are inconsistent with the Miami-Dade County background concentration of iron in groundwater. Based on the foregoing, install permanent monitoring wells in the vicinity of the above mentioned temporary wells and sample and analyze groundwater as indicated below.
 - o The monitoring well installed in the vicinity of TMW-2 shall be sampled and the groundwater analyzed for antimony.
 - o The monitoring well installed in the vicinity of TMW-3 shall be sampled and the groundwater analyzed for aluminum and iron.
 - o The monitoring well installed in the vicinity of TMW-4 shall be sampled and the groundwater analyzed for iron.

If resampling confirms groundwater contamination, additional assessment as needed to fully delineate the groundwater plume will be required.

Soil

2. Based on the dioxin concentration through the 0-1 foot interval, conduct source removal, with confirmation sampling, in the right-of way in the area of SB-70. Based on the lead concentration at the 1 to 2 feet interval DERM recommends including the 1 to 2 feet interval in the source removal.

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3. Offsite delineation, is required as follows:
 - o Along the eastern property based on the contaminant concentrations documented at soils borings SB-72, SB-73, SB-74, SB-54 and SB-76. Dioxin shall be included as a contaminant of concern for offsite delineation in the vicinity of SB-72.
 - o West of SB-40 and SB-6
 - o Additional offsite delineation is required to the north of soil borings SB-77 (arsenic only) and SB-78 through SB-81
4. Based on the contaminant concentrations at soil boring SB-58 and SB-60 additional delineation, in the direction of the property boundary, is required and shall include analysis for dioxins.

Solid Waste Delineation

5. The solid waste delineation provided in Figure 8 is inconsistent with the delineation provided in Figure 2. As an example Figure 2 indicates that within Area 3 (playground area) solid waste occurs below 1 foot throughout most of this area; however, based on Figure 8, solid waste occurs at 6 inch throughout most of the area. Similar inconsistencies are note in other areas. The maps shall be revised as appropriate and included in the next submittal.
6. Offsite solid waste delineation is required outside the northeastern property boundary and additional offsite delineation is required to the north of SB-79 through SB-81.
7. Provide north/south and east/west cross sections indicating the vertical extent of the solid waste layer. Given the size of the park, more than one cross section maybe required in each direction.

General

8. Provide concentration contour for each of the major contaminants of concern for each vertical interval. The contours shall be overlaid with the solid waste distribution for that interval.
9. Provide a map indicating the soiled waste thickness at each soil boring location.

Notwithstanding the need for additional assessment, DERM finds that the SAR provides sufficient information to allow for the development of a corrective action plan to address the contamination documented at the park.

Based on the above, within forty-five (45) days of receipt of this correspondence, submit a site assessment report addendum that addresses the requirements above along with a corrective action plan to address the contamination documented at the site.

The consultant collecting the samples shall perform field sampling work in accordance with the Standard Operating Procedures provided in Chapter 62-160, Florida Administrative Code (FAC). The laboratory analyzing the samples shall perform laboratory analyses pursuant to the

Alice Bravo
Curtis Park
HWR-777
May 29, 2014
Page 3 of 3

National Environmental Laboratory Accreditation Program (NELAP) certification requirements. DERM reserves the right to split samples with the consultant as deemed necessary; therefore, DERM shall be notified via email a minimum of three (3) working days prior to the implementation of any sampling or field activities. Email notifications shall be directed to bucknl@miamidade.gov as well as to DERMPCD@miamidade.gov. Please include the DERM file number on all correspondence.

If you have any questions concerning the above contact me at mayorw@miamidade.gov or Lorna Bucknor at bucknl@miamidade.gov or via telephone at (305) 372-6700.

Sincerely



Wilbur Mayorga, P.E. Chief
Environmental Monitoring and Restoration Division

ec: Jeovanny Rodriguez, City of Miami - jeovannyrodriguez@miamigov.com
Eduardo Smith, SCS ES Consultants - ESmith@scsenqineers.com
Samir Elmir, Ph.D., FDOH-Miami Dade County - Samir.Elmir@flhealth.gov
Lee Hefty, Director, DERM - hefty1@miamidade.gov

ATTACHMENT B
WELL CONSTRUCTION AND DEVELOPMENT LOGS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA			
Well Number: MW-1	Site Name: Curtis Park (1901 NW 24th Ave, Miami, FL)	FDEP Facility I.D. Number:	Well Install Date(s): 3 June 14
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade If AG, list feet of riser above land surface:		Well Purpose: <input type="checkbox"/> Perched Monitoring <input checked="" type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input type="checkbox"/> Remediation or Other (describe)	Well Install Method: Direct Push Surface Casing Install Method: N/A
Borehole Depth (feet): 14.5	Well Depth (feet): 14	Borehole Diameter (inches): 3 1/4	Manhole Diameter (inches): 6"
Riser Diameter and Material: Solid PVC 1.5"		Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Well Pad Size: 1 feet by 1 feet
Screen Diameter and Material: Slotted PVC 1.5"		Screen Slot Size: 0.01	Riser Length: 4 feet from 0 feet to 4 feet
1 st Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		1 st Surface Casing I.D. (inches):	1 st Surface Casing Length: feet from 0 feet to feet
2 nd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		2 nd Surface Casing I.D. (inches):	2 nd Surface Casing Length: feet from 0 feet to feet
3 rd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		3 rd Surface Casing I.D. (inches):	3 rd Surface Casing Length: feet from 0 feet to feet
Filter Pack Material and Size: 1/20	Prepacked Filter Around Screen (check one): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Filter Pack Length: 1.3 feet from 1.25 feet to 14.5 feet
Filter Pack Seal Material and Size: Fine Grained Sand			Filter Pack Seal Length: 0.75 feet from 0.75 feet to 1.5 feet
Surface Seal Material: Neat Grout			Surface Seal Length: 0.5 feet from 0.25 feet to 0.75 feet

WELL DEVELOPMENT DATA			
Well Development Date: 3 June 14	Well Development Method (check one): <input type="checkbox"/> Surge/Pump <input checked="" type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)		
Development Pump Type (check): <input type="checkbox"/> Submersible <input checked="" type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic <input type="checkbox"/> Other (describe)	Depth to Groundwater (before developing in feet): 5		
Pumping Rate (gallons per minute): ~0.7	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Pumping Condition (check one): <input checked="" type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons): 55	Development Duration (minutes): 80	Development Water Drummed (check one): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development: Tanish/Brown / Turbid - No Odor		Water Appearance (color and odor) At End of Development: Clear / No Odor	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: MW-2	Site Name: Curtis Park (1901 NW 24th Ave, Miami, FL)	FDEP Facility I.D. Number:	Well Install Date(s): 3-Jun-14		
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input checked="" type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input type="checkbox"/> Remediation or Other (describe)		Well Install Method: Direct Push	
If AG, list feet of riser above land surface:				Surface Casing Install Method: N/A	
Borehole Depth (feet): 15	Well Depth (feet): 14	Borehole Diameter (inches): 3 1/4	Manhole Diameter (inches): 6"	Well Pad Size: 1 feet by 1 feet	
Riser Diameter and Material: Solid PVC 1 1/2"		Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: 4 feet from 0 feet to 4 feet		
Screen Diameter and Material: SLOTTED PVC 1.5"		Screen Slot Size: 0.01	Screen Length: 10 feet from 4 feet to 14 feet		
1 st Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		1 st Surface Casing I.D. (inches):	1 st Surface Casing Length: _____ feet from 0 feet to _____ feet		
2 nd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		2 nd Surface Casing I.D. (inches):	2 nd Surface Casing Length: _____ feet from 0 feet to _____ feet		
3 rd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		3 rd Surface Casing I.D. (inches):	3 rd Surface Casing Length: _____ feet from 0 feet to _____ feet		
Filter Pack Material and Size: 0/20	Prepacked Filter Around Screen (check one): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Filter Pack Length: 13 feet from 2 feet to 15 feet		
Filter Pack Seal Material and Size: Fine grain sand		Filter Pack Seal Length: 1 feet from 1 feet to 2 feet			
Surface Seal Material: Neat grout		Surface Seal Length: 0.5 feet from 0.5 feet to 1 feet			

WELL DEVELOPMENT DATA			
Well Development Date: 3-June-14	Well Development Method (check one): <input type="checkbox"/> Surge/Pu <input checked="" type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)		
Development Pump Type (check): <input checked="" type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic <input type="checkbox"/> Submersible <input checked="" type="checkbox"/> Other (describe)	Depth to Groundwater (before developing in feet): 5		
Pumping Rate (gallons per minute): 0.9	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Pumping Condition (check one): <input checked="" type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons): 55	Development Duration (minutes): 60	Development Water Drummed (check one): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development: White / Turbid - No odor		Water Appearance (color and odor) At End of Development: Clear - No odor	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: MW-3	Site Name: Curtis Park (1901 NW 24th Ave, Miami, FL)	FDEP Facility I.D. Number:	Well Install Date(s): 3-Jun-14		
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input checked="" type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input type="checkbox"/> Remediation or Other (describe)		Well Install Method: Direct Push	
If AG, list feet of riser above land surface:				Surface Casing Install Method: N/A	
Borehole Depth (feet): 15	Well Depth (feet): 14	Borehole Diameter (inches): 3.4	Manhole Diameter (inches): 6"	Well Pad Size: 1 feet by 1 feet	
Riser Diameter and Material: Solid PVC - 1.5"		Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: 4 feet from 0 feet to 4 feet		
Screen Diameter and Material: stuffed PVC - 1.5"		Screen Slot Size: 0.01	Screen Length: 10 feet from 4 feet to 14 feet		
1 st Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		1 st Surface Casing I.D. (inches):	1 st Surface Casing Length: _____ feet from 0 feet to _____ feet		
2 nd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		2 nd Surface Casing I.D. (inches):	2 nd Surface Casing Length: _____ feet from 0 feet to _____ feet		
3 rd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		3 rd Surface Casing I.D. (inches):	3 rd Surface Casing Length: _____ feet from 0 feet to _____ feet		
Filter Pack Material and Size: 4/20		Prepacked Filter Around Screen (check one): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Filter Pack Length: 13 feet from 2 feet to 15 feet		
Filter Pack Seal Material and Size: Fine grain Sand		Filter Pack Seal Length: 1 feet from 1 feet to 2 feet			
Surface Seal Material: Neat Grout.		Surface Seal Length: 0.5 feet from 0.5 feet to 1 feet			

WELL DEVELOPMENT DATA			
Well Development Date: 3-June-14		Well Development Method (check one): <input type="checkbox"/> Surge/Pu <input checked="" type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)	
Development Pump Type (check): <input type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic <input type="checkbox"/> Submersible <input checked="" type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Pumping Condition (check one): <input checked="" type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development: White / Turbid - No Odor.		Water Appearance (color and odor) At End of Development: Clean. No Odor	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

ATTACHMENT C
GROUNDWATER SAMPLING LOGS, GROUNDWATER
LABORATORY ANALYTICAL REPORTS &
CHAIN-OF-CUSTODY

**Form FD 9000-24
GROUNDWATER SAMPLING LOG**

SITE NAME: <u>Curtis Park</u>	SITE LOCATION: <u>1901 NW 24 Ave, Miami, FL</u>
WELL NO: <u>MW-2</u>	DATE: <u>6 Jun 2014</u>

PURGING DATA

WELL DIAMETER (inches): <u>1.25</u>	TUBING DIAMETER (inches): <u>3/16</u>	WELL SCREEN INTERVAL DEPTH: <u>3.57</u> feet to <u>13.57</u> feet	STATIC DEPTH TO WATER (feet): <u>3.68</u>	PURGE PUMP TYPE OR BAILER: PP
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (<u>13.57</u> feet - <u>3.68</u> feet) X <u>0.06</u> gallons/foot = <u>0.59</u> gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = _____ gallons + (_____ gallons/foot X _____ feet) + _____ gallons = _____ gallons				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): <u>8.5</u>	FINAL PUMP OR TUBING DEPTH IN WELL (feet): <u>8.5</u>	PURGING INITIATED AT: <u>14:25</u>	PURGING ENDED AT: <u>14:58</u>	TOTAL VOLUME PURGED (gallons): <u>3.4</u>

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
<u>14:25</u>	-	-	-	<u>3.68</u>	-	-	-	-	<u>12.14</u>	<u>clear</u>	<u>None</u>
<u>14:35</u>	<u>1.0</u>	<u>1.0</u>	<u>0.1</u>	<u>3.66</u>	<u>6.92</u>	<u>25.20</u>	<u>1467</u>	<u>18.4</u>	<u>4.41</u>	<u>clear</u>	<u>None</u>
<u>14:54</u>	<u>2.0</u>	<u>3.0</u>	<u>0.1</u>	<u>3.46</u>	<u>6.93</u>	<u>25.67</u>	<u>1455</u>	<u>10.9</u>	<u>5.12</u>	<u>clear</u>	<u>None</u>
<u>14:56</u>	<u>0.2</u>	<u>3.2</u>	<u>0.1</u>	<u>3.67</u>	<u>6.93</u>	<u>25.65</u>	<u>1453</u>	<u>10.4</u>	<u>4.99</u>	<u>clear</u>	<u>None</u>
<u>14:58</u>	<u>0.2</u>	<u>3.4</u>	<u>0.1</u>	<u>3.67</u>	<u>6.94</u>	<u>25.65</u>	<u>1456</u>	<u>10.4</u>	<u>4.63</u>	<u>clear</u>	<u>None</u>

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <u>Maria Pagas / scs</u>				SAMPLER(S) SIGNATURE(S): <u>Maria Pagas</u>				SAMPLING INITIATED AT: <u>15:00</u>		SAMPLING ENDED AT: <u>15:03</u>	
PUMP OR TUBING DEPTH IN WELL (feet): <u>8.5</u>				TUBING MATERIAL CODE: PE, S				FIELD-FILTERED: Y <input checked="" type="radio"/> N <input type="radio"/>		FILTER SIZE: _____ μm	
FIELD DECONTAMINATION: PUMP Y <input checked="" type="radio"/> N <input type="radio"/>				TUBING Y <input checked="" type="radio"/> N (replaced) <input type="radio"/>				DUPLICATE: Y <input checked="" type="radio"/> N <input type="radio"/>			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
<u>MW-2</u>	<u>1</u>	<u>PE</u>	<u>250</u>	<u>HNO₃</u>	<u>-</u>	<u>< 2</u>	<u>Total FE + Total Al</u>	<u>APP</u>	<u>~125</u>

REMARKS: 5 well volumes = 2.95.

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

- NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

**Form FD 9000-24
GROUNDWATER SAMPLING LOG**

SITE NAME: Curtis Park	SITE LOCATION: 1901 NW 24 Ave Miami FL
WELL NO: NW-3	DATE: 26 Jun 2014

PURGING DATA

WELL DIAMETER (inches): 1.75	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 3.52 feet to 3.52 feet	STATIC DEPTH TO WATER (feet): 3.68	PURGE PUMP TYPE OR BAILER: PP
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (13.52 feet - 3.68 feet) X 0.06 gallons/foot = 0.59 gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = _____ gallons + (_____ gallons/foot X _____ feet) + _____ gallons = _____ gallons				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 8.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 8.5	PURGING INITIATED AT: 15:10	PURGING ENDED AT: 15:58	TOTAL VOLUME PURGED (gallons): 8.3

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
15:10	-	-	-	3.68	-	-	-	-	129	Turbid	None
15:45	7.0	7.0	0.2	3.68	6.98	26.21	1489	18.2	35.4	Turbid	None
15:50	0.5	7.5	0.1	3.65	6.96	26.25	1458	14.2	23.9	Turbid	None
15:54	0.4	7.9	0.1	3.64	6.90	26.24	1456	13.9	20.1	Turbid	None
15:56	0.2	8.1	0.1	3.64	6.89	26.25	1457	13.6	18.3	Turbid	None
15:58	0.2	8.3	0.1	3.63	6.89	26.25	1454	12.8	18.9	Turbid	None

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Maria Pages / SCS				SAMPLER(S) SIGNATURE(S): <i>[Signature]</i>				SAMPLING INITIATED AT: 1600		SAMPLING ENDED AT: 1603	
PUMP OR TUBING DEPTH IN WELL (feet): 8.5				TUBING MATERIAL CODE: PE, S				FIELD-FILTERED: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>		FILTER SIZE: _____ μm	
FIELD DECONTAMINATION: PUMP Y <input type="checkbox"/> N <input checked="" type="checkbox"/>				TUBING Y <input type="checkbox"/> N <input checked="" type="checkbox"/> (replaced)				DUPLICATE: Y <input type="checkbox"/> N <input checked="" type="checkbox"/>			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
NW3	1	PE	250	HNO3	-	<2	Total Fe	APP	~125

REMARKS: **5 well volumes - 295 gallons**

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Tallahassee
2846 Industrial Plaza Drive
Tallahassee, FL 32301
Tel: (850)878-3994

TestAmerica Job ID: 640-48171-1
Client Project/Site: Curtis Park

For:
SCS ES Consultants
7700 N. Kendall Drive, Suite 300
Miami, Florida 33156

Attn: Mr. Bob Speed



Authorized for release by:
6/16/2014 3:27:02 PM
Matt Jones, Project Management Assistant I
matt.jones@testamericainc.com

Designee for
Amy Marks, Project Manager II
(850)878-3994
amy.marks@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: SCS ES Consultants
Project/Site: Curtis Park

TestAmerica Job ID: 640-48171-1

Qualifiers

Metals

Qualifier	Qualifier Description
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U	Indicates that the compound was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: SCS ES Consultants
Project/Site: Curtis Park

TestAmerica Job ID: 640-48171-1

Job ID: 640-48171-1

Laboratory: TestAmerica Tallahassee

Narrative

Job Narrative
640-48171-1

Comments

No additional comments.

Receipt

The samples were received on 6/10/2014 at 8:30 AM. The samples arrived in good condition, properly preserved, and on ice. The temperature of the cooler at receipt was 1.9° C.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Detection Summary

Client: SCS ES Consultants
Project/Site: Curtis Park

TestAmerica Job ID: 640-48171-1

Client Sample ID: MW-1

Lab Sample ID: 640-48171-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	8.3		5.0	2.3	ug/L	1		6020A	Total Recoverable

Client Sample ID: MW-2

Lab Sample ID: 640-48171-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	25	I	50	23	ug/L	1		6020A	Total Recoverable
Iron	1000		100	33	ug/L	1		6020A	Total Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Tallahassee



Client Sample Results

Client: SCS ES Consultants
Project/Site: Curtis Park

TestAmerica Job ID: 640-48171-1

Client Sample ID: MW-1
Date Collected: 06/06/14 14:13
Date Received: 06/10/14 08:30

Lab Sample ID: 640-48171-1
Matrix: Water

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	8.3		5.0	2.3	ug/L		06/12/14 08:40	06/12/14 16:27	1

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Client Sample Results

Client: SCS ES Consultants
Project/Site: Curtis Park

TestAmerica Job ID: 640-48171-1

Client Sample ID: MW-2

Lab Sample ID: 640-48171-2

Date Collected: 06/06/14 15:00

Matrix: Water

Date Received: 06/10/14 08:30

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	25	I	50	23	ug/L		06/12/14 08:40	06/12/14 16:32	1
Iron	1000		100	33	ug/L		06/12/14 08:40	06/12/14 16:32	1

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QC Sample Results

Client: SCS ES Consultants
Project/Site: Curtis Park

TestAmerica Job ID: 640-48171-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 680-333791/1-A
Matrix: Water
Analysis Batch: 334172

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 333791

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	23	U	50	23	ug/L		06/12/14 08:40	06/12/14 15:50	1
Antimony	2.3	U	5.0	2.3	ug/L		06/12/14 08:40	06/12/14 15:50	1
Iron	33	U	100	33	ug/L		06/12/14 08:40	06/12/14 15:50	1

Lab Sample ID: LCS 680-333791/2-A
Matrix: Water
Analysis Batch: 334172

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 333791

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	5000	4740		ug/L		95	75 - 125
Antimony	50.0	50.6		ug/L		101	75 - 125
Iron	5000	4650		ug/L		93	75 - 125

QC Association Summary

Client: SCS ES Consultants
Project/Site: Curtis Park

TestAmerica Job ID: 640-48171-1

Metals

Prep Batch: 333791

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-48171-1	MW-1	Total Recoverable	Water	3005A	
640-48171-2	MW-2	Total Recoverable	Water	3005A	
LCS 680-333791/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 680-333791/1-A	Method Blank	Total Recoverable	Water	3005A	

Analysis Batch: 334172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-48171-1	MW-1	Total Recoverable	Water	6020A	333791
640-48171-2	MW-2	Total Recoverable	Water	6020A	333791
LCS 680-333791/2-A	Lab Control Sample	Total Recoverable	Water	6020A	333791
MB 680-333791/1-A	Method Blank	Total Recoverable	Water	6020A	333791

Lab Chronicle

Client: SCS ES Consultants
Project/Site: Curtis Park

TestAmerica Job ID: 640-48171-1

Client Sample ID: MW-1

Date Collected: 06/06/14 14:13

Date Received: 06/10/14 08:30

Lab Sample ID: 640-48171-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			333791	06/12/14 08:40	BJB	TAL SAV
Total Recoverable	Analysis	6020A		1	334172	06/12/14 16:27	BWR	TAL SAV

Client Sample ID: MW-2

Date Collected: 06/06/14 15:00

Date Received: 06/10/14 08:30

Lab Sample ID: 640-48171-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			333791	06/12/14 08:40	BJB	TAL SAV
Total Recoverable	Analysis	6020A		1	334172	06/12/14 16:32	BWR	TAL SAV

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Certification Summary

Client: SCS ES Consultants
Project/Site: Curtis Park

TestAmerica Job ID: 640-48171-1

Laboratory: TestAmerica Tallahassee

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Florida	NELAP	4	E81005	06-30-14 *
Georgia	State Program	4		06-30-14 *
Louisiana	NELAP	6	30663	06-30-14 *
New Jersey	NELAP	2	FL012	06-30-14 *
Texas	NELAP	6	T104704459-11-2	03-31-15
USDA	Federal		P330-08-00158	08-05-14

Laboratory: TestAmerica Savannah

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Florida	NELAP	4	E87052	06-30-14 *

* Certification renewal pending - certification considered valid.



Method Summary

Client: SCS ES Consultants
Project/Site: Curtis Park

TestAmerica Job ID: 640-48171-1

Method	Method Description	Protocol	Laboratory
6020A	Metals (ICP/MS)	SW846	TAL SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858



Sample Summary

Client: SCS ES Consultants
Project/Site: Curtis Park

TestAmerica Job ID: 640-48171-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
640-48171-1	MW-1	Water	06/06/14 14:13	06/10/14 08:30
640-48171-2	MW-2	Water	06/06/14 15:00	06/10/14 08:30

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Tallahassee
2846 Industrial Plaza Drive
Tallahassee, FL 32301
Tel: (850)878-3994

TestAmerica Job ID: 640-48171-2
Client Project/Site: Curtis Park

For:
SCS ES Consultants
7700 N. Kendall Drive, Suite 300
Miami, Florida 33156

Attn: Mr. Bob Speed



Authorized for release by:
6/16/2014 3:30:13 PM
Matt Jones, Project Management Assistant I
matt.jones@testamericainc.com

Designee for
Amy Marks, Project Manager II
(850)878-3994
amy.marks@testamericainc.com

LINKS

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: SCS ES Consultants
Project/Site: Curtis Park

TestAmerica Job ID: 640-48171-2

Qualifiers

Metals

Qualifier	Qualifier Description
U	Indicates that the compound was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: SCS ES Consultants
Project/Site: Curtis Park

TestAmerica Job ID: 640-48171-2

Job ID: 640-48171-2

Laboratory: TestAmerica Tallahassee

Narrative

Job Narrative
640-48171-2

Comments

No additional comments.

Receipt

The samples were received on 6/10/2014 at 8:30 AM. The samples arrived in good condition, properly preserved, and on ice. The temperature of the cooler at receipt was 1.9° C.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Detection Summary

Client: SCS ES Consultants
Project/Site: Curtis Park

TestAmerica Job ID: 640-48171-2

Client Sample ID: MW-3

Lab Sample ID: 640-48171-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	300		100	33	ug/L	1		6020A	Total Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Tallahassee

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Client Sample Results

Client: SCS ES Consultants
Project/Site: Curtis Park

TestAmerica Job ID: 640-48171-2

Client Sample ID: MW-3
Date Collected: 06/06/14 16:00
Date Received: 06/10/14 08:30

Lab Sample ID: 640-48171-3
Matrix: Water

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	300		100	33	ug/L		06/12/14 08:40	06/12/14 16:48	1

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QC Sample Results

Client: SCS ES Consultants
 Project/Site: Curtis Park

TestAmerica Job ID: 640-48171-2

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 680-333791/1-A
 Matrix: Water
 Analysis Batch: 334172

Client Sample ID: Method Blank
 Prep Type: Total Recoverable
 Prep Batch: 333791

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	33	U	100	33	ug/L		06/12/14 08:40	06/12/14 15:50	1

Lab Sample ID: LCS 680-333791/2-A
 Matrix: Water
 Analysis Batch: 334172

Client Sample ID: Lab Control Sample
 Prep Type: Total Recoverable
 Prep Batch: 333791

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	5000	4650		ug/L		93	75 - 125

QC Association Summary

Client: SCS ES Consultants
Project/Site: Curtis Park

TestAmerica Job ID: 640-48171-2

Metals

Prep Batch: 333791

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-48171-3	MW-3	Total Recoverable	Water	3005A	
LCS 680-333791/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 680-333791/1-A	Method Blank	Total Recoverable	Water	3005A	

Analysis Batch: 334172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-48171-3	MW-3	Total Recoverable	Water	6020A	333791
LCS 680-333791/2-A	Lab Control Sample	Total Recoverable	Water	6020A	333791
MB 680-333791/1-A	Method Blank	Total Recoverable	Water	6020A	333791

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Lab Chronicle

Client: SCS ES Consultants
Project/Site: Curtis Park

TestAmerica Job ID: 640-48171-2

Client Sample ID: MW-3

Lab Sample ID: 640-48171-3

Date Collected: 06/06/14 16:00

Matrix: Water

Date Received: 06/10/14 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			333791	06/12/14 08:40	BJB	TAL SAV
Total Recoverable	Analysis	6020A		1	334172	06/12/14 16:48	BWR	TAL SAV

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

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Certification Summary

Client: SCS ES Consultants
Project/Site: Curtis Park

TestAmerica Job ID: 640-48171-2

Laboratory: TestAmerica Tallahassee

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Florida	NELAP	4	E81005	06-30-14 *
Georgia	State Program	4		06-30-14 *
Louisiana	NELAP	6	30663	06-30-14 *
New Jersey	NELAP	2	FL012	06-30-14 *
Texas	NELAP	6	T104704459-11-2	03-31-15
USDA	Federal		P330-08-00158	08-05-14

Laboratory: TestAmerica Savannah

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Florida	NELAP	4	E87052	06-30-14 *

* Certification renewal pending - certification considered valid.

Method Summary

Client: SCS ES Consultants
Project/Site: Curtis Park

TestAmerica Job ID: 640-48171-2

Method	Method Description	Protocol	Laboratory
6020A	Metals (ICP/MS)	SW846	TAL SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858



Sample Summary

Client: SCS ES Consultants
Project/Site: Curtis Park

TestAmerica Job ID: 640-48171-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
640-48171-3	MW-3	Water	06/06/14 16:00	06/10/14 08:30

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ATTACHMENT D
SOIL BORING LOGS, SOIL LABORATORY ANALYTICAL
REPORT & CHAIN-OF-CUSTODY

**CURTIS PARK
BORING LOG**

Site Name: Curtis Park		Sample Location ID: SB-82		Miami-Dade County Folio Number: 01-3134-000-0330	
Site Address: 1901 NW 24th Ave, Miami, FL		Borehole Start Date: 3-Jun-14	Borehole Start Time: 9:15	<input checked="" type="checkbox"/> AM	<input type="checkbox"/> PM
		End Date: 3-Jun-14	End Time: 9:20	<input checked="" type="checkbox"/> AM	<input type="checkbox"/> PM
Environmental Contractor: SCS Engineers		Geologist's Name: Maria Pages		Environmental Technician's Name:	
Drilling Contractor / Method(s): JAEE / Geoprobe (DP)		Borehole Diameter (inches): 3	Disposition of Drill Cuttings: Used for Samples.		Borehole Completion: Fine Grain Sand

Sample Type	Sample Depth Interval (feet)	Moisture Content	Depth (feet)	Sample Description (include grain size based, odors, staining, and other remarks)	Lab Soil Sample/ Collection Time
DP	0-0.5	D	0.5	(0-0.75) Dark Brown silty top Soil	SB-82 (0-0.5)
	0.5-2		1.0		
DP		D	1.5	(0.75-2) Tan to off white limerock fill with medium to small limestone fragments.	9:20 SB-82 (0.5-2) 9:25
			2.0		
			2.5		
			3.0		
			3.5		
			4.0		
			4.5		
			5.0		
			5.5		
			6.0		
			6.5		
			7.0		
			7.5		
			8.0		
			8.5		
			9.0		
			9.5		
			10.0		
			10.5		
			11.0		
			11.5		
			12.0		
			12.5		
			13.0		
			13.5		
			14.0		
			14.5		
			15.0		

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cutting
 Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

**CURTIS PARK
BORING LOG**

Site Name: Curtis Park		Sample Location ID: SB-83		Miami-Dade County Folio Number: 01-3134-000-0330	
Site Address: 1901 NW 24th Ave, Miami, FL		Borehole Start Date: 3 Jun 14	Borehole Start Time: 9:35 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	End Date: 3 Jun 14	
Environmental Contractor: SCS Engineers		Geologist's Name: Maria Pages		Environmental Technician's Name:	
Drilling Contractor / Method(s): JAEE / Geoprobe (DP)		Borehole Diameter (inches): 3	Disposition of Drill Cuttings: Used for Samples		Borehole Completion: Fine Grain Sand

Sample Type	Sample Depth Interval (feet)	Moisture Content	Depth (feet)	Sample Description (include grain size based, odors, staining, and other remarks)	Lab Soil Sample/ Collection Time
DP	0-0.5	D	0.5 1.0 1.5 2.0	(0-0.75) Dark Brown silty topsoil with small limestone fragments (vegetation-roots-grass)	SB-83 (0-0.5) 9:42
DP	0.5-2	DP	2.5 3.0 3.5 4.0 4.5 5.0	(0.75-2) tan to off white limestone fill with small to medium limestone fragments.	SB-83 (0.5-2) 9:45
			5.5 6.0 6.5 7.0 7.5 8.0 8.5 9.0 9.5 10.0 10.5 11.0 11.5 12.0 12.5 13.0 13.5 14.0 14.5 15.0	Soil Boring terminated @ 2 feet BGS.	

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cutting
 Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

**CURTIS PARK
BORING LOG**

Site Name: Curtis Park		Sample Location ID: SB-84		Miami-Dade County Folio Number: 01-3134-000-0330	
Site Address: 1901 NW 24th Ave, Miami, FL		Borehole Start Date: 3-Jun-14	Borehole Start Time: 9:50	<input checked="" type="checkbox"/> AM	<input type="checkbox"/> PM
		End Date: 3-Jun-14	End Time: 9:55	<input checked="" type="checkbox"/> AM	<input type="checkbox"/> PM
Environmental Contractor: SCS Engineers		Geologist's Name: Maria Pages		Environmental Technician's Name:	
Drilling Contractor / Method(s): JAEE / Geoprobe (DP)		Borehole Diameter (inches): 3	Disposition of Drill Cuttings: Used for Samples		Borehole Completion: Fine Grain Sand
Sample Type	Sample Depth Interval (feet)	Moisture Content	Depth (feet)	Sample Description (include grain size based, odors, staining, and other remarks)	Lab Soil Sample/ Collection Time
DP	0-0.5	D	0.5 1.0 1.5	(0-0.5) Dark Brown silty top soil with vegetation (roots)	SB-84 (0-0.5) 10:00
DP	0.5-2	D	2.0 2.5 3.0 3.5 4.0	(0.5-2) Tan to off white linerock fill with medium to large limestone fragments	SB-84 (0.5-2) 10:03
			4.5 5.0 5.5 6.0 6.5 7.0 7.5 8.0 8.5 9.0 9.5 10.0 10.5 11.0 11.5 12.0 12.5 13.0 13.5 14.0 14.5 15.0	Soil Boring terminated @ 2 feet BGS.	

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cutting
 Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

**CURTIS PARK
BORING LOG**

Site Name: Curtis Park		Sample Location ID: SB-85		Miami-Dade County Folio Number: 01-3134-000-0330	
Site Address: 1901 NW 24th Ave, Miami, FL		Borehole Start Date: 3-Jun-14	Borehole Start Time: 10:45	<input checked="" type="checkbox"/> AM	<input type="checkbox"/> PM
		End Date: 3-Jun-14	End Time: 10:50	<input checked="" type="checkbox"/> AM	<input type="checkbox"/> PM
Environmental Contractor: SCS Engineers		Geologist's Name: Maria Pages		Environmental Technician's Name:	
Drilling Contractor / Method(s): JAEE / Geoprobe (DP)		Borehole Diameter (inches): 3	Disposition of Drill Cuttings: Used for Samples		Borehole Completion: Fine Grain Sand
Sample Type	Sample Depth Interval (feet)	Moisture Content	Depth (feet)	Sample Description (include grain size based, odors, staining, and other remarks)	Lab Soil Sample/ Collection Time
DP	0-0.5	D	0.5 1.0 1.5 2.0	(0-1.5) Dark Brown to Black silty top soil with small to medium size limestone fragments.	SB-85 (0-0.5) 10:53
DP	0.5-2	D	2.5 3.0 3.5 4.0 4.5 5.0	(1.5-2) Tan to off white Limerock fill with small to medium limestone fragments.	SB-85 (0.5-2) 10:56
			5.5 6.0 6.5 7.0 7.5 8.0 8.5 9.0 9.5 10.0 10.5 11.0 11.5 12.0 12.5 13.0 13.5 14.0 14.5 15.0	Soil Boring terminated @ 2 ft BGS.	

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cutting
 Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

**CURTIS PARK
BORING LOG**

Site Name: Curtis Park		Sample Location ID: SB-86		Miami-Dade County Folio Number: 01-3134-000-0330	
Site Address: 1901 NW 24th Ave, Miami, FL		Borehole Start Date: 3 Jun 14	Borehole Start Time: 11:00	<input checked="" type="checkbox"/> AM	<input type="checkbox"/> PM
		End Date: 3 Jun 14	End Time: 11:05	<input checked="" type="checkbox"/> AM	<input type="checkbox"/> PM
Environmental Contractor: SCS Engineers		Geologist's Name: Maria Pages		Environmental Technician's Name:	
Drilling Contractor / Method(s): JAEE / Geoprobe (DP)		Borehole Diameter (inches): 3	Disposition of Drill Cuttings: used for samples		Borehole Completion: Fine Grain Sand

Sample Type	Sample Depth Interval (feet)	Moisture Content	Depth (feet)	Sample Description (include grain size based, odors, staining, and other remarks)	Lab Soil Sample/ Collection Time
DP	0-0.5	D	0.5	(0-0.75) Dark Brown silty top soil with vegetation (roots/grass)	SB-86 (0-0.5) 11:08
			1.0		
DP	0.5-2	D	1.5	(0.75-2) Tan to off white limerock fill with small to medium size limestone fragments	SB-86 (0.5-2) 11:11
			2.0		
			2.5		
			3.0		
			3.5		
			4.0		
			4.5		
			5.0		
			5.5		
			6.0		
				Soil Boring terminated @ 2 feet BGS.	
6.5					
7.0					
7.5					
8.0					
8.5					
9.0					
9.5					
10.0					
10.5					
11.0					
11.5					
12.0					
12.5					
13.0					
13.5					
14.0					
14.5					
15.0					

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cutting
 Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

**CURTIS PARK
BORING LOG**

Site Name: Curtis Park		Sample Location ID: SB-87		Miami-Dade County Folio Number: 01-3134-000-0330	
Site Address: 1901 NW 24th Ave, Miami, FL		Borehole Start Date: 3 Jun 14	Borehole Start Time: 11:20 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	End Date: 3 Jun 14	
Environmental Contractor: SCS Engineers		Geologist's Name: Maria Pages		Environmental Technician's Name:	
Drilling Contractor / Method(s): JAEE / Geoprobe (DP)		Borehole Diameter (inches): 3	Diposition of Drill Cuttings: Used for samples	Borehole Completion: Fine Grain Sand	
Sample Type	Sample Depth Interval (feet)	Moisture Content	Depth (feet)	Sample Description (include grain size based, odors, staining, and other remarks)	Lab Soil Sample/ Collection Time
DP	0-0.5	D	0.5 1.0 1.5 2.0	(0-0.5) Dark Brown silty top soil with vegetation (roots)	SB-87 (0-0.5) 11:28
DP	0.5-2	D	2.5 3.0 3.5 4.0 4.5	(0.5-2) Tan to offwhite limeroch fill with small to medium limestone fragments.	SB-87 (0.5-2) 11:31
			5.0 5.5 6.0 6.5 7.0 7.5 8.0 8.5 9.0 9.5 10.0 10.5 11.0 11.5 12.0 12.5 13.0 13.5 14.0 14.5 15.0	Soil Boring terminated @ 2ft BGS.	

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cutting
 Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

**CURTIS PARK
BORING LOG**

Site Name: Curtis Park		Sample Location ID: SB-88		Miami-Dade County Folio Number: 01-3134-000-0330	
Site Address: 1901 NW 24th Ave, Miami, FL		Borehole Start Date: 3 Jun 14	Borehole Start Time: 11:40	<input checked="" type="checkbox"/> AM	<input type="checkbox"/> PM
		End Date: 3 Jun 14	End Time: 11:45	<input checked="" type="checkbox"/> AM	<input type="checkbox"/> PM
Environmental Contractor: SCS Engineers		Geologist's Name: Maria Pages		Environmental Technician's Name:	
Drilling Contractor / Method(s): JAEE / Geoprobe (DP)		Borehole Diameter (inches): 3	Diposition of Drill Cuttings: Used for samples	Borehole Completion: Fine Grain Sand	
Sample Type	Sample Depth Interval (feet)	Moisture Content	Depth (feet)	Sample Description (include grain size based, odors, staining, and other remarks)	Lab Soil Sample/ Collection Time
DP	0-0.5	D	0.5 1.0 1.5 2.0	(0-0.75) Dark Brown to black silty top soil with small limestone fragments.	SB-88 (0-0.5) 11:48
DP	0.5-2	D	2.5 3.0 3.5 4.0 4.5	(0.75-2) Tan to off white limestone fill with small to medium size limestone fragments.	SB-88 (0.5-2) 11:51
			5.0 5.5 6.0 6.5 7.0 7.5 8.0 8.5 9.0 9.5 10.0 10.5 11.0 11.5 12.0 12.5 13.0 13.5 14.0 14.5 15.0	Soil Boring terminated @ 2 FT BGS.	

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cutting
 Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Tallahassee
2846 Industrial Plaza Drive
Tallahassee, FL 32301
Tel: (850)878-3994

TestAmerica Job ID: 640-48133-1
Client Project/Site: Curtis Park

For:
SCS ES Consultants
7700 N. Kendall Drive, Suite 300
Miami, Florida 33156

Attn: Mr. Bob Speed



Authorized for release by:
6/10/2014 11:03:54 PM

Amy Marks, Project Manager II
(850)878-3994
amy.marks@testamericainc.com

LINKS

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www.testamericainc.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: SCS ES Consultants
Project/Site: Curtis Park

TestAmerica Job ID: 640-48133-1

Qualifiers

Metals

Qualifier

Qualifier Description

I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U	Indicates that the compound was analyzed for but not detected.

Glossary

Abbreviation

These commonly used abbreviations may or may not be present in this report.

□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: SCS ES Consultants
Project/Site: Curtis Park

TestAmerica Job ID: 640-48133-1

Job ID: 640-48133-1

Laboratory: TestAmerica Tallahassee

Narrative

Job Narrative
640-48133-1

Comments

No additional comments.

Receipt

The samples were received on 6/4/2014 at 4:30 PM. The samples arrived in good condition, properly preserved, and on ice. The temperature of the cooler at receipt was 1.4° C.

Metals

Method 6010B: The method blank (MB) associated with batch 148830 contained Lead and Iron above the method detection limit (MDL). These target analyte concentrations were less than the practical quantitation limit (PQL); therefore, re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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Detection Summary

Client: SCS ES Consultants
Project/Site: Curtis Park

TestAmerica Job ID: 640-48133-1

Client Sample ID: SB-82 (0-0.5)

Lab Sample ID: 640-48133-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	5.6		2.3	0.56	mg/Kg	1	☒	6010B	Total/NA
Arsenic	6.6		0.56	0.26	mg/Kg	1	☒	6010B	Total/NA
Barium	100		1.1	0.18	mg/Kg	1	☒	6010B	Total/NA
Copper	62		2.3	0.56	mg/Kg	1	☒	6010B	Total/NA
Iron	5500		5.6	3.4	mg/Kg	1	☒	6010B	Total/NA
Lead	190		0.56	0.17	mg/Kg	1	☒	6010B	Total/NA

Client Sample ID: SB-82 (0.5-2)

Lab Sample ID: 640-48133-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.87	I	2.4	0.61	mg/Kg	1	☒	6010B	Total/NA
Arsenic	1.4		0.61	0.28	mg/Kg	1	☒	6010B	Total/NA
Barium	48		1.2	0.20	mg/Kg	1	☒	6010B	Total/NA
Copper	20		2.4	0.61	mg/Kg	1	☒	6010B	Total/NA
Iron	1500		6.1	3.7	mg/Kg	1	☒	6010B	Total/NA
Lead	53		0.61	0.18	mg/Kg	1	☒	6010B	Total/NA

Client Sample ID: SB-83 (0-0.5)

Lab Sample ID: 640-48133-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	5.1		2.3	0.57	mg/Kg	1	☒	6010B	Total/NA
Arsenic	13		0.57	0.26	mg/Kg	1	☒	6010B	Total/NA
Barium	110		1.1	0.18	mg/Kg	1	☒	6010B	Total/NA
Copper	150		2.3	0.57	mg/Kg	1	☒	6010B	Total/NA
Iron	11000		5.7	3.4	mg/Kg	1	☒	6010B	Total/NA
Lead	380		0.57	0.17	mg/Kg	1	☒	6010B	Total/NA

Client Sample ID: SB-83 (0.5-2)

Lab Sample ID: 640-48133-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.3		2.2	0.56	mg/Kg	1	☒	6010B	Total/NA
Arsenic	25		0.56	0.26	mg/Kg	1	☒	6010B	Total/NA
Barium	49		1.1	0.18	mg/Kg	1	☒	6010B	Total/NA
Copper	33		2.2	0.56	mg/Kg	1	☒	6010B	Total/NA
Iron	3700		5.6	3.3	mg/Kg	1	☒	6010B	Total/NA
Lead	110		0.56	0.17	mg/Kg	1	☒	6010B	Total/NA

Client Sample ID: SB-84 (0-0.5)

Lab Sample ID: 640-48133-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.2		0.54	0.25	mg/Kg	1	☒	6010B	Total/NA
Barium	9.4		1.1	0.17	mg/Kg	1	☒	6010B	Total/NA
Copper	16		2.2	0.54	mg/Kg	1	☒	6010B	Total/NA
Iron	1300		5.4	3.2	mg/Kg	1	☒	6010B	Total/NA
Lead	36		0.54	0.16	mg/Kg	1	☒	6010B	Total/NA

Client Sample ID: SB-84 (0.5-2)

Lab Sample ID: 640-48133-6

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	3.6		2.2	0.56	mg/Kg	1	☒	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Tallahassee

Detection Summary

Client: SCS ES Consultants
Project/Site: Curtis Park

TestAmerica Job ID: 640-48133-1

Client Sample ID: SB-84 (0.5-2) (Continued)

Lab Sample ID: 640-48133-6

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.0		0.56	0.26	mg/Kg	1	*	6010B	Total/NA
Barium	59		1.1	0.18	mg/Kg	1	*	6010B	Total/NA
Copper	45		2.2	0.56	mg/Kg	1	*	6010B	Total/NA
Iron	5200		5.6	3.4	mg/Kg	1	*	6010B	Total/NA
Lead	220		0.56	0.17	mg/Kg	1	*	6010B	Total/NA

Client Sample ID: SB-85 (0-0.5)

Lab Sample ID: 640-48133-7

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.2		2.2	0.54	mg/Kg	1	*	6010B	Total/NA
Arsenic	2.5		0.54	0.25	mg/Kg	1	*	6010B	Total/NA
Barium	38		1.1	0.17	mg/Kg	1	*	6010B	Total/NA
Copper	38		2.2	0.54	mg/Kg	1	*	6010B	Total/NA
Iron	3000		5.4	3.3	mg/Kg	1	*	6010B	Total/NA
Lead	88		0.54	0.16	mg/Kg	1	*	6010B	Total/NA

Client Sample ID: SB-85 (0.5-2)

Lab Sample ID: 640-48133-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.4		2.2	0.56	mg/Kg	1	*	6010B	Total/NA
Arsenic	2.3		0.56	0.26	mg/Kg	1	*	6010B	Total/NA
Barium	44		1.1	0.18	mg/Kg	1	*	6010B	Total/NA
Copper	36		2.2	0.56	mg/Kg	1	*	6010B	Total/NA
Iron	4200		5.6	3.3	mg/Kg	1	*	6010B	Total/NA
Lead	94		0.56	0.17	mg/Kg	1	*	6010B	Total/NA

Client Sample ID: SB-86 (0-0.5)

Lab Sample ID: 640-48133-9

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.0		0.66	0.31	mg/Kg	1	*	6010B	Total/NA
Barium	16		1.3	0.21	mg/Kg	1	*	6010B	Total/NA
Copper	23		2.7	0.66	mg/Kg	1	*	6010B	Total/NA
Iron	1400		6.6	4.0	mg/Kg	1	*	6010B	Total/NA
Lead	21		0.66	0.20	mg/Kg	1	*	6010B	Total/NA

Client Sample ID: SB-86 (0.5-2)

Lab Sample ID: 640-48133-10

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.90	I	2.1	0.53	mg/Kg	1	*	6010B	Total/NA
Arsenic	1.9		0.53	0.25	mg/Kg	1	*	6010B	Total/NA
Barium	6.4		1.1	0.17	mg/Kg	1	*	6010B	Total/NA
Copper	21		2.1	0.53	mg/Kg	1	*	6010B	Total/NA
Iron	8100		5.3	3.2	mg/Kg	1	*	6010B	Total/NA
Lead	28		0.53	0.16	mg/Kg	1	*	6010B	Total/NA

Client Sample ID: SB-87 (0-0.5)

Lab Sample ID: 640-48133-11

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.8		0.62	0.29	mg/Kg	1	*	6010B	Total/NA
Barium	16		1.2	0.20	mg/Kg	1	*	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Tallahassee

Detection Summary

Client: SCS ES Consultants
Project/Site: Curtis Park

TestAmerica Job ID: 640-48133-1

Client Sample ID: SB-87 (0-0.5) (Continued)

Lab Sample ID: 640-48133-11

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	19		2.5	0.62	mg/Kg	1	☼	6010B	Total/NA
Iron	1800		6.2	3.7	mg/Kg	1	☼	6010B	Total/NA
Lead	49		0.62	0.19	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: SB-87 (0.5-2)

Lab Sample ID: 640-48133-12

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.81		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	6.3		1.1	0.18	mg/Kg	1	☼	6010B	Total/NA
Copper	4.3		2.2	0.56	mg/Kg	1	☼	6010B	Total/NA
Iron	850		5.6	3.4	mg/Kg	1	☼	6010B	Total/NA
Lead	11		0.56	0.17	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: SB-88 (0-0.5)

Lab Sample ID: 640-48133-13

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.1		0.59	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	12		1.2	0.19	mg/Kg	1	☼	6010B	Total/NA
Copper	17		2.4	0.59	mg/Kg	1	☼	6010B	Total/NA
Iron	1600		5.9	3.6	mg/Kg	1	☼	6010B	Total/NA
Lead	15		0.59	0.18	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: SB-88 (0.5-2)

Lab Sample ID: 640-48133-14

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.71		0.54	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	7.4		1.1	0.17	mg/Kg	1	☼	6010B	Total/NA
Copper	5.7		2.2	0.54	mg/Kg	1	☼	6010B	Total/NA
Iron	540		5.4	3.3	mg/Kg	1	☼	6010B	Total/NA
Lead	19		0.54	0.16	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Tallahassee

Client Sample Results

Client: SCS ES Consultants
 Project/Site: Curtis Park

TestAmerica Job ID: 640-48133-1

Client Sample ID: SB-82 (0-0.5)

Lab Sample ID: 640-48133-1

Date Collected: 06/03/14 09:20

Matrix: Solid

Date Received: 06/04/14 16:30

Percent Solids: 88.9

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.6		2.3	0.56	mg/Kg	☼	06/06/14 10:50	06/10/14 07:19	1
Arsenic	6.6		0.56	0.26	mg/Kg	☼	06/06/14 10:50	06/10/14 07:19	1
Barium	100		1.1	0.18	mg/Kg	☼	06/06/14 10:50	06/10/14 07:19	1
Copper	62		2.3	0.56	mg/Kg	☼	06/06/14 10:50	06/10/14 07:19	1
Iron	5500		5.6	3.4	mg/Kg	☼	06/06/14 10:50	06/10/14 07:19	1
Lead	190		0.56	0.17	mg/Kg	☼	06/06/14 10:50	06/10/14 07:19	1



Client Sample Results

Client: SCS ES Consultants
 Project/Site: Curtis Park

TestAmerica Job ID: 640-48133-1

Client Sample ID: SB-82 (0.5-2)

Lab Sample ID: 640-48133-2

Date Collected: 06/03/14 09:25

Matrix: Solid

Date Received: 06/04/14 16:30

Percent Solids: 79.6

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.87	I	2.4	0.61	mg/Kg	☼	06/06/14 10:50	06/10/14 07:22	1
Arsenic	1.4		0.61	0.28	mg/Kg	☼	06/06/14 10:50	06/10/14 07:22	1
Barium	48		1.2	0.20	mg/Kg	☼	06/06/14 10:50	06/10/14 07:22	1
Copper	20		2.4	0.61	mg/Kg	☼	06/06/14 10:50	06/10/14 07:22	1
Iron	1500		6.1	3.7	mg/Kg	☼	06/06/14 10:50	06/10/14 07:22	1
Lead	53		0.61	0.18	mg/Kg	☼	06/06/14 10:50	06/10/14 07:22	1



Client Sample Results

Client: SCS ES Consultants
 Project/Site: Curtis Park

TestAmerica Job ID: 640-48133-1

Client Sample ID: SB-83 (0-0.5)

Lab Sample ID: 640-48133-3

Date Collected: 06/03/14 09:42

Matrix: Solid

Date Received: 06/04/14 16:30

Percent Solids: 89.3

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.1		2.3	0.57	mg/Kg	☼	06/06/14 10:50	06/10/14 07:26	1
Arsenic	13		0.57	0.26	mg/Kg	☼	06/06/14 10:50	06/10/14 07:26	1
Barium	110		1.1	0.18	mg/Kg	☼	06/06/14 10:50	06/10/14 07:26	1
Copper	150		2.3	0.57	mg/Kg	☼	06/06/14 10:50	06/10/14 07:26	1
Iron	11000		5.7	3.4	mg/Kg	☼	06/06/14 10:50	06/10/14 07:26	1
Lead	380		0.57	0.17	mg/Kg	☼	06/06/14 10:50	06/10/14 07:26	1



Client Sample Results

Client: SCS ES Consultants
 Project/Site: Curtis Park

TestAmerica Job ID: 640-48133-1

Client Sample ID: SB-83 (0.5-2)

Lab Sample ID: 640-48133-4

Date Collected: 06/03/14 09:45

Matrix: Solid

Date Received: 06/04/14 16:30

Percent Solids: 90.6

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3		2.2	0.56	mg/Kg	☼	06/06/14 10:50	06/10/14 07:36	1
Arsenic	25		0.56	0.26	mg/Kg	☼	06/06/14 10:50	06/10/14 07:36	1
Barium	49		1.1	0.18	mg/Kg	☼	06/06/14 10:50	06/10/14 07:36	1
Copper	33		2.2	0.56	mg/Kg	☼	06/06/14 10:50	06/10/14 07:36	1
Iron	3700		5.6	3.3	mg/Kg	☼	06/06/14 10:50	06/10/14 07:36	1
Lead	110		0.56	0.17	mg/Kg	☼	06/06/14 10:50	06/10/14 07:36	1



Client Sample Results

Client: SCS ES Consultants
 Project/Site: Curtis Park

TestAmerica Job ID: 640-48133-1

Client Sample ID: SB-84 (0-0.5)

Lab Sample ID: 640-48133-5

Date Collected: 06/03/14 10:00

Matrix: Solid

Date Received: 06/04/14 16:30

Percent Solids: 92.8

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.54	U	2.2	0.54	mg/Kg	☼	06/06/14 10:50	06/10/14 07:39	1
Arsenic	1.2		0.54	0.25	mg/Kg	☼	06/06/14 10:50	06/10/14 07:39	1
Barium	9.4		1.1	0.17	mg/Kg	☼	06/06/14 10:50	06/10/14 07:39	1
Copper	16		2.2	0.54	mg/Kg	☼	06/06/14 10:50	06/10/14 07:39	1
Iron	1300		5.4	3.2	mg/Kg	☼	06/06/14 10:50	06/10/14 07:39	1
Lead	36		0.54	0.16	mg/Kg	☼	06/06/14 10:50	06/10/14 07:39	1



Client Sample Results

Client: SCS ES Consultants
 Project/Site: Curtis Park

TestAmerica Job ID: 640-48133-1

Client Sample ID: SB-84 (0.5-2)

Lab Sample ID: 640-48133-6

Date Collected: 06/03/14 10:03

Matrix: Solid

Date Received: 06/04/14 16:30

Percent Solids: 88.4

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.6		2.2	0.56	mg/Kg	☼	06/06/14 10:50	06/10/14 07:43	1
Arsenic	5.0		0.56	0.26	mg/Kg	☼	06/06/14 10:50	06/10/14 07:43	1
Barium	59		1.1	0.18	mg/Kg	☼	06/06/14 10:50	06/10/14 07:43	1
Copper	45		2.2	0.56	mg/Kg	☼	06/06/14 10:50	06/10/14 07:43	1
Iron	5200		5.6	3.4	mg/Kg	☼	06/06/14 10:50	06/10/14 07:43	1
Lead	220		0.56	0.17	mg/Kg	☼	06/06/14 10:50	06/10/14 07:43	1



Client Sample Results

Client: SCS ES Consultants
 Project/Site: Curtis Park

TestAmerica Job ID: 640-48133-1

Client Sample ID: SB-85 (0-0.5)

Lab Sample ID: 640-48133-7

Date Collected: 06/03/14 10:53

Matrix: Solid

Date Received: 06/04/14 16:30

Percent Solids: 90.2

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.2		2.2	0.54	mg/Kg	☼	06/06/14 10:50	06/10/14 07:46	1
Arsenic	2.5		0.54	0.25	mg/Kg	☼	06/06/14 10:50	06/10/14 07:46	1
Barium	38		1.1	0.17	mg/Kg	☼	06/06/14 10:50	06/10/14 07:46	1
Copper	38		2.2	0.54	mg/Kg	☼	06/06/14 10:50	06/10/14 07:46	1
Iron	3000		5.4	3.3	mg/Kg	☼	06/06/14 10:50	06/10/14 07:46	1
Lead	88		0.54	0.16	mg/Kg	☼	06/06/14 10:50	06/10/14 07:46	1



Client Sample Results

Client: SCS ES Consultants
 Project/Site: Curtis Park

TestAmerica Job ID: 640-48133-1

Client Sample ID: SB-85 (0.5-2)

Lab Sample ID: 640-48133-8

Date Collected: 06/03/14 10:56

Matrix: Solid

Date Received: 06/04/14 16:30

Percent Solids: 88.8

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.4		2.2	0.56	mg/Kg	☼	06/06/14 10:50	06/10/14 07:50	1
Arsenic	2.3		0.56	0.26	mg/Kg	☼	06/06/14 10:50	06/10/14 07:50	1
Barium	44		1.1	0.18	mg/Kg	☼	06/06/14 10:50	06/10/14 07:50	1
Copper	36		2.2	0.56	mg/Kg	☼	06/06/14 10:50	06/10/14 07:50	1
Iron	4200		5.6	3.3	mg/Kg	☼	06/06/14 10:50	06/10/14 07:50	1
Lead	94		0.56	0.17	mg/Kg	☼	06/06/14 10:50	06/10/14 07:50	1



Client Sample Results

Client: SCS ES Consultants
 Project/Site: Curtis Park

TestAmerica Job ID: 640-48133-1

Client Sample ID: SB-86 (0-0.5)

Lab Sample ID: 640-48133-9

Date Collected: 06/03/14 11:08

Matrix: Solid

Date Received: 06/04/14 16:30

Percent Solids: 76.0

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.66	U	2.7	0.66	mg/Kg	☼	06/06/14 10:50	06/10/14 07:53	1
Arsenic	2.0		0.66	0.31	mg/Kg	☼	06/06/14 10:50	06/10/14 07:53	1
Barium	16		1.3	0.21	mg/Kg	☼	06/06/14 10:50	06/10/14 07:53	1
Copper	23		2.7	0.66	mg/Kg	☼	06/06/14 10:50	06/10/14 07:53	1
Iron	1400		6.6	4.0	mg/Kg	☼	06/06/14 10:50	06/10/14 07:53	1
Lead	21		0.66	0.20	mg/Kg	☼	06/06/14 10:50	06/10/14 07:53	1



Client Sample Results

Client: SCS ES Consultants
 Project/Site: Curtis Park

TestAmerica Job ID: 640-48133-1

Client Sample ID: SB-86 (0.5-2)

Lab Sample ID: 640-48133-10

Date Collected: 06/03/14 11:11

Matrix: Solid

Date Received: 06/04/14 16:30

Percent Solids: 91.9

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.90	I	2.1	0.53	mg/Kg	☼	06/06/14 10:50	06/10/14 07:57	1
Arsenic	1.9		0.53	0.25	mg/Kg	☼	06/06/14 10:50	06/10/14 07:57	1
Barium	6.4		1.1	0.17	mg/Kg	☼	06/06/14 10:50	06/10/14 07:57	1
Copper	21		2.1	0.53	mg/Kg	☼	06/06/14 10:50	06/10/14 07:57	1
Iron	8100		5.3	3.2	mg/Kg	☼	06/06/14 10:50	06/10/14 07:57	1
Lead	28		0.53	0.16	mg/Kg	☼	06/06/14 10:50	06/10/14 07:57	1



Client Sample Results

Client: SCS ES Consultants
 Project/Site: Curtis Park

TestAmerica Job ID: 640-48133-1

Client Sample ID: SB-87 (0-0.5)

Lab Sample ID: 640-48133-11

Date Collected: 06/03/14 11:28

Matrix: Solid

Date Received: 06/04/14 16:30

Percent Solids: 81.5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.62	U	2.5	0.62	mg/Kg	☼	06/06/14 10:50	06/10/14 08:00	1
Arsenic	2.8		0.62	0.29	mg/Kg	☼	06/06/14 10:50	06/10/14 08:00	1
Barium	16		1.2	0.20	mg/Kg	☼	06/06/14 10:50	06/10/14 08:00	1
Copper	19		2.5	0.62	mg/Kg	☼	06/06/14 10:50	06/10/14 08:00	1
Iron	1800		6.2	3.7	mg/Kg	☼	06/06/14 10:50	06/10/14 08:00	1
Lead	49		0.62	0.19	mg/Kg	☼	06/06/14 10:50	06/10/14 08:00	1



Client Sample Results

Client: SCS ES Consultants
 Project/Site: Curtis Park

TestAmerica Job ID: 640-48133-1

Client Sample ID: SB-87 (0.5-2)

Lab Sample ID: 640-48133-12

Date Collected: 06/03/14 11:31

Matrix: Solid

Date Received: 06/04/14 16:30

Percent Solids: 90.3

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.56	U	2.2	0.56	mg/Kg	☼	06/06/14 10:50	06/10/14 08:04	1
Arsenic	0.81		0.56	0.26	mg/Kg	☼	06/06/14 10:50	06/10/14 08:04	1
Barium	6.3		1.1	0.18	mg/Kg	☼	06/06/14 10:50	06/10/14 08:04	1
Copper	4.3		2.2	0.56	mg/Kg	☼	06/06/14 10:50	06/10/14 08:04	1
Iron	850		5.6	3.4	mg/Kg	☼	06/06/14 10:50	06/10/14 08:04	1
Lead	11		0.56	0.17	mg/Kg	☼	06/06/14 10:50	06/10/14 08:04	1



Client Sample Results

Client: SCS ES Consultants
 Project/Site: Curtis Park

TestAmerica Job ID: 640-48133-1

Client Sample ID: SB-88 (0-0.5)

Lab Sample ID: 640-48133-13

Date Collected: 06/03/14 11:48

Matrix: Solid

Date Received: 06/04/14 16:30

Percent Solids: 82.6

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.59	U	2.4	0.59	mg/Kg	☼	06/06/14 10:50	06/10/14 08:07	1
Arsenic	3.1		0.59	0.27	mg/Kg	☼	06/06/14 10:50	06/10/14 08:07	1
Barium	12		1.2	0.19	mg/Kg	☼	06/06/14 10:50	06/10/14 08:07	1
Copper	17		2.4	0.59	mg/Kg	☼	06/06/14 10:50	06/10/14 08:07	1
Iron	1600		5.9	3.6	mg/Kg	☼	06/06/14 10:50	06/10/14 08:07	1
Lead	15		0.59	0.18	mg/Kg	☼	06/06/14 10:50	06/10/14 08:07	1



Client Sample Results

Client: SCS ES Consultants
 Project/Site: Curtis Park

TestAmerica Job ID: 640-48133-1

Client Sample ID: SB-88 (0.5-2)

Lab Sample ID: 640-48133-14

Date Collected: 06/03/14 11:51

Matrix: Solid

Date Received: 06/04/14 16:30

Percent Solids: 91.8

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.54	U	2.2	0.54	mg/Kg	☼	06/06/14 10:50	06/10/14 08:17	1
Arsenic	0.71		0.54	0.25	mg/Kg	☼	06/06/14 10:50	06/10/14 08:17	1
Barium	7.4		1.1	0.17	mg/Kg	☼	06/06/14 10:50	06/10/14 08:17	1
Copper	5.7		2.2	0.54	mg/Kg	☼	06/06/14 10:50	06/10/14 08:17	1
Iron	540		5.4	3.3	mg/Kg	☼	06/06/14 10:50	06/10/14 08:17	1
Lead	19		0.54	0.16	mg/Kg	☼	06/06/14 10:50	06/10/14 08:17	1



QC Sample Results

Client: SCS ES Consultants
 Project/Site: Curtis Park

TestAmerica Job ID: 640-48133-1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 660-148830/1-A

Matrix: Solid

Analysis Batch: 148883

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 148830

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.50	U	2.0	0.50	mg/Kg		06/06/14 10:50	06/10/14 06:55	1
Arsenic	0.23	U	0.50	0.23	mg/Kg		06/06/14 10:50	06/10/14 06:55	1
Barium	0.16	U	1.0	0.16	mg/Kg		06/06/14 10:50	06/10/14 06:55	1
Copper	0.50	U	2.0	0.50	mg/Kg		06/06/14 10:50	06/10/14 06:55	1
Iron	3.86	I	5.0	3.0	mg/Kg		06/06/14 10:50	06/10/14 06:55	1
Lead	0.187	I	0.50	0.15	mg/Kg		06/06/14 10:50	06/10/14 06:55	1

Lab Sample ID: LCS 660-148830/2-A

Matrix: Solid

Analysis Batch: 148883

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 148830

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	49.5	50.2		mg/Kg		101	75 - 125
Arsenic	49.5	49.3		mg/Kg		100	75 - 125
Barium	49.5	51.1		mg/Kg		103	75 - 125
Copper	49.5	51.3		mg/Kg		104	75 - 125
Iron	49.5	52.4		mg/Kg		106	75 - 125
Lead	49.5	50.7		mg/Kg		102	75 - 125

QC Association Summary

Client: SCS ES Consultants
Project/Site: Curtis Park

TestAmerica Job ID: 640-48133-1

Metals

Prep Batch: 148830

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-48133-1	SB-82 (0-0.5)	Total/NA	Solid	3050B	
640-48133-2	SB-82 (0.5-2)	Total/NA	Solid	3050B	
640-48133-3	SB-83 (0-0.5)	Total/NA	Solid	3050B	
640-48133-4	SB-83 (0.5-2)	Total/NA	Solid	3050B	
640-48133-5	SB-84 (0-0.5)	Total/NA	Solid	3050B	
640-48133-6	SB-84 (0.5-2)	Total/NA	Solid	3050B	
640-48133-7	SB-85 (0-0.5)	Total/NA	Solid	3050B	
640-48133-8	SB-85 (0.5-2)	Total/NA	Solid	3050B	
640-48133-9	SB-86 (0-0.5)	Total/NA	Solid	3050B	
640-48133-10	SB-86 (0.5-2)	Total/NA	Solid	3050B	
640-48133-11	SB-87 (0-0.5)	Total/NA	Solid	3050B	
640-48133-12	SB-87 (0.5-2)	Total/NA	Solid	3050B	
640-48133-13	SB-88 (0-0.5)	Total/NA	Solid	3050B	
640-48133-14	SB-88 (0.5-2)	Total/NA	Solid	3050B	
LCS 660-148830/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 660-148830/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 148883

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-48133-1	SB-82 (0-0.5)	Total/NA	Solid	6010B	148830
640-48133-2	SB-82 (0.5-2)	Total/NA	Solid	6010B	148830
640-48133-3	SB-83 (0-0.5)	Total/NA	Solid	6010B	148830
640-48133-4	SB-83 (0.5-2)	Total/NA	Solid	6010B	148830
640-48133-5	SB-84 (0-0.5)	Total/NA	Solid	6010B	148830
640-48133-6	SB-84 (0.5-2)	Total/NA	Solid	6010B	148830
640-48133-7	SB-85 (0-0.5)	Total/NA	Solid	6010B	148830
640-48133-8	SB-85 (0.5-2)	Total/NA	Solid	6010B	148830
640-48133-9	SB-86 (0-0.5)	Total/NA	Solid	6010B	148830
640-48133-10	SB-86 (0.5-2)	Total/NA	Solid	6010B	148830
640-48133-11	SB-87 (0-0.5)	Total/NA	Solid	6010B	148830
640-48133-12	SB-87 (0.5-2)	Total/NA	Solid	6010B	148830
640-48133-13	SB-88 (0-0.5)	Total/NA	Solid	6010B	148830
640-48133-14	SB-88 (0.5-2)	Total/NA	Solid	6010B	148830
LCS 660-148830/2-A	Lab Control Sample	Total/NA	Solid	6010B	148830
MB 660-148830/1-A	Method Blank	Total/NA	Solid	6010B	148830

General Chemistry

Analysis Batch: 148854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-48133-1	SB-82 (0-0.5)	Total/NA	Solid	Moisture	
640-48133-1 DU	SB-82 (0-0.5)	Total/NA	Solid	Moisture	
640-48133-2	SB-82 (0.5-2)	Total/NA	Solid	Moisture	
640-48133-3	SB-83 (0-0.5)	Total/NA	Solid	Moisture	
640-48133-4	SB-83 (0.5-2)	Total/NA	Solid	Moisture	
640-48133-5	SB-84 (0-0.5)	Total/NA	Solid	Moisture	
640-48133-6	SB-84 (0.5-2)	Total/NA	Solid	Moisture	
640-48133-7	SB-85 (0-0.5)	Total/NA	Solid	Moisture	
640-48133-8	SB-85 (0.5-2)	Total/NA	Solid	Moisture	
640-48133-9	SB-86 (0-0.5)	Total/NA	Solid	Moisture	

TestAmerica Tallahassee

QC Association Summary

Client: SCS ES Consultants
Project/Site: Curtis Park

TestAmerica Job ID: 640-48133-1

General Chemistry (Continued)

Analysis Batch: 148854 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-48133-10	SB-86 (0.5-2)	Total/NA	Solid	Moisture	
640-48133-11	SB-87 (0-0.5)	Total/NA	Solid	Moisture	
640-48133-12	SB-87 (0.5-2)	Total/NA	Solid	Moisture	
640-48133-13	SB-88 (0-0.5)	Total/NA	Solid	Moisture	
640-48133-14	SB-88 (0.5-2)	Total/NA	Solid	Moisture	

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

Lab Chronicle

Client: SCS ES Consultants
Project/Site: Curtis Park

TestAmerica Job ID: 640-48133-1

Client Sample ID: SB-82 (0-0.5)

Date Collected: 06/03/14 09:20

Date Received: 06/04/14 16:30

Lab Sample ID: 640-48133-1

Matrix: Solid

Percent Solids: 88.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			148830	06/06/14 10:50	GH1	TAL TAM
Total/NA	Analysis	6010B		1	148883	06/10/14 07:19	GAF	TAL TAM
Total/NA	Analysis	Moisture		1	148854	06/09/14 05:55	AJG	TAL TAM

Client Sample ID: SB-82 (0.5-2)

Date Collected: 06/03/14 09:25

Date Received: 06/04/14 16:30

Lab Sample ID: 640-48133-2

Matrix: Solid

Percent Solids: 79.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			148830	06/06/14 10:50	GH1	TAL TAM
Total/NA	Analysis	6010B		1	148883	06/10/14 07:22	GAF	TAL TAM
Total/NA	Analysis	Moisture		1	148854	06/09/14 05:55	AJG	TAL TAM

Client Sample ID: SB-83 (0-0.5)

Date Collected: 06/03/14 09:42

Date Received: 06/04/14 16:30

Lab Sample ID: 640-48133-3

Matrix: Solid

Percent Solids: 89.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			148830	06/06/14 10:50	GH1	TAL TAM
Total/NA	Analysis	6010B		1	148883	06/10/14 07:26	GAF	TAL TAM
Total/NA	Analysis	Moisture		1	148854	06/09/14 05:55	AJG	TAL TAM

Client Sample ID: SB-83 (0.5-2)

Date Collected: 06/03/14 09:45

Date Received: 06/04/14 16:30

Lab Sample ID: 640-48133-4

Matrix: Solid

Percent Solids: 90.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			148830	06/06/14 10:50	GH1	TAL TAM
Total/NA	Analysis	6010B		1	148883	06/10/14 07:36	GAF	TAL TAM
Total/NA	Analysis	Moisture		1	148854	06/09/14 05:55	AJG	TAL TAM

Client Sample ID: SB-84 (0-0.5)

Date Collected: 06/03/14 10:00

Date Received: 06/04/14 16:30

Lab Sample ID: 640-48133-5

Matrix: Solid

Percent Solids: 92.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			148830	06/06/14 10:50	GH1	TAL TAM
Total/NA	Analysis	6010B		1	148883	06/10/14 07:39	GAF	TAL TAM
Total/NA	Analysis	Moisture		1	148854	06/09/14 05:55	AJG	TAL TAM

TestAmerica Tallahassee

Lab Chronicle

Client: SCS ES Consultants
Project/Site: Curtis Park

TestAmerica Job ID: 640-48133-1

Client Sample ID: SB-84 (0.5-2)

Lab Sample ID: 640-48133-6

Date Collected: 06/03/14 10:03

Matrix: Solid

Date Received: 06/04/14 16:30

Percent Solids: 88.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			148830	06/06/14 10:50	GH1	TAL TAM
Total/NA	Analysis	6010B		1	148883	06/10/14 07:43	GAF	TAL TAM
Total/NA	Analysis	Moisture		1	148854	06/09/14 05:55	AJG	TAL TAM

Client Sample ID: SB-85 (0-0.5)

Lab Sample ID: 640-48133-7

Date Collected: 06/03/14 10:53

Matrix: Solid

Date Received: 06/04/14 16:30

Percent Solids: 90.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			148830	06/06/14 10:50	GH1	TAL TAM
Total/NA	Analysis	6010B		1	148883	06/10/14 07:46	GAF	TAL TAM
Total/NA	Analysis	Moisture		1	148854	06/09/14 05:55	AJG	TAL TAM

Client Sample ID: SB-85 (0.5-2)

Lab Sample ID: 640-48133-8

Date Collected: 06/03/14 10:56

Matrix: Solid

Date Received: 06/04/14 16:30

Percent Solids: 88.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			148830	06/06/14 10:50	GH1	TAL TAM
Total/NA	Analysis	6010B		1	148883	06/10/14 07:50	GAF	TAL TAM
Total/NA	Analysis	Moisture		1	148854	06/09/14 05:55	AJG	TAL TAM

Client Sample ID: SB-86 (0-0.5)

Lab Sample ID: 640-48133-9

Date Collected: 06/03/14 11:08

Matrix: Solid

Date Received: 06/04/14 16:30

Percent Solids: 76.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			148830	06/06/14 10:50	GH1	TAL TAM
Total/NA	Analysis	6010B		1	148883	06/10/14 07:53	GAF	TAL TAM
Total/NA	Analysis	Moisture		1	148854	06/09/14 05:55	AJG	TAL TAM

Client Sample ID: SB-86 (0.5-2)

Lab Sample ID: 640-48133-10

Date Collected: 06/03/14 11:11

Matrix: Solid

Date Received: 06/04/14 16:30

Percent Solids: 91.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			148830	06/06/14 10:50	GH1	TAL TAM
Total/NA	Analysis	6010B		1	148883	06/10/14 07:57	GAF	TAL TAM
Total/NA	Analysis	Moisture		1	148854	06/09/14 05:55	AJG	TAL TAM

TestAmerica Tallahassee

Lab Chronicle

Client: SCS ES Consultants
Project/Site: Curtis Park

TestAmerica Job ID: 640-48133-1

Client Sample ID: SB-87 (0-0.5)

Lab Sample ID: 640-48133-11

Date Collected: 06/03/14 11:28

Matrix: Solid

Date Received: 06/04/14 16:30

Percent Solids: 81.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			148830	06/06/14 10:50	GH1	TAL TAM
Total/NA	Analysis	6010B		1	148883	06/10/14 08:00	GAF	TAL TAM
Total/NA	Analysis	Moisture		1	148854	06/09/14 05:55	AJG	TAL TAM

Client Sample ID: SB-87 (0.5-2)

Lab Sample ID: 640-48133-12

Date Collected: 06/03/14 11:31

Matrix: Solid

Date Received: 06/04/14 16:30

Percent Solids: 90.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			148830	06/06/14 10:50	GH1	TAL TAM
Total/NA	Analysis	6010B		1	148883	06/10/14 08:04	GAF	TAL TAM
Total/NA	Analysis	Moisture		1	148854	06/09/14 05:55	AJG	TAL TAM

Client Sample ID: SB-88 (0-0.5)

Lab Sample ID: 640-48133-13

Date Collected: 06/03/14 11:48

Matrix: Solid

Date Received: 06/04/14 16:30

Percent Solids: 82.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			148830	06/06/14 10:50	GH1	TAL TAM
Total/NA	Analysis	6010B		1	148883	06/10/14 08:07	GAF	TAL TAM
Total/NA	Analysis	Moisture		1	148854	06/09/14 05:55	AJG	TAL TAM

Client Sample ID: SB-88 (0.5-2)

Lab Sample ID: 640-48133-14

Date Collected: 06/03/14 11:51

Matrix: Solid

Date Received: 06/04/14 16:30

Percent Solids: 91.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			148830	06/06/14 10:50	GH1	TAL TAM
Total/NA	Analysis	6010B		1	148883	06/10/14 08:17	GAF	TAL TAM
Total/NA	Analysis	Moisture		1	148854	06/09/14 05:55	AJG	TAL TAM

Laboratory References:

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

Certification Summary

Client: SCS ES Consultants
Project/Site: Curtis Park

TestAmerica Job ID: 640-48133-1

Laboratory: TestAmerica Tallahassee

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Florida	NELAP	4	E81005	06-30-14 *
Georgia	State Program	4		06-30-14 *
Louisiana	NELAP	6	30663	06-30-14 *
New Jersey	NELAP	2	FL012	06-30-14 *
Texas	NELAP	6	T104704459-11-2	03-31-15
USDA	Federal		P330-08-00158	08-05-14

Laboratory: TestAmerica Tampa

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40610	06-30-14 *
Florida	NELAP	4	E84282	06-30-14 *
Georgia	State Program	4	905	06-30-14 *
USDA	Federal		P330-14-00159	05-07-17

* Certification renewal pending - certification considered valid.

Method Summary

Client: SCS ES Consultants
Project/Site: Curtis Park

TestAmerica Job ID: 640-48133-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL TAM
Moisture	Percent Moisture	EPA	TAL TAM

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427



Sample Summary

Client: SCS ES Consultants
Project/Site: Curtis Park

TestAmerica Job ID: 640-48133-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
640-48133-1	SB-82 (0-0.5)	Solid	06/03/14 09:20	06/04/14 16:30
640-48133-2	SB-82 (0.5-2)	Solid	06/03/14 09:25	06/04/14 16:30
640-48133-3	SB-83 (0-0.5)	Solid	06/03/14 09:42	06/04/14 16:30
640-48133-4	SB-83 (0.5-2)	Solid	06/03/14 09:45	06/04/14 16:30
640-48133-5	SB-84 (0-0.5)	Solid	06/03/14 10:00	06/04/14 16:30
640-48133-6	SB-84 (0.5-2)	Solid	06/03/14 10:03	06/04/14 16:30
640-48133-7	SB-85 (0-0.5)	Solid	06/03/14 10:53	06/04/14 16:30
640-48133-8	SB-85 (0.5-2)	Solid	06/03/14 10:56	06/04/14 16:30
640-48133-9	SB-86 (0-0.5)	Solid	06/03/14 11:08	06/04/14 16:30
640-48133-10	SB-86 (0.5-2)	Solid	06/03/14 11:11	06/04/14 16:30
640-48133-11	SB-87 (0-0.5)	Solid	06/03/14 11:28	06/04/14 16:30
640-48133-12	SB-87 (0.5-2)	Solid	06/03/14 11:31	06/04/14 16:30
640-48133-13	SB-88 (0-0.5)	Solid	06/03/14 11:48	06/04/14 16:30
640-48133-14	SB-88 (0.5-2)	Solid	06/03/14 11:51	06/04/14 16:30

Regulatory Program: DW NPDES RCRA Other: *Maria Pages*

Date: *6/14/14*

TestAmerica Laboratories, Inc.

Project Manager: Eddy Smith

Site Contact: Britney Odum

Carrier:

COC No. *1* of *2* COCs

Tell/Fax: CALENDAR DAYS WORKING DAYS

Lab Contact: Amy Marks

Sampler:

or Lab Use Only:

Analysis Turnaround Time

Filtered Sample (Y/N)



lab / SDG No.:

TAT if different from Below

Perform MS / MSD (Y / N)

Metals 6010 (Sb, As, Ba, Cu, Pb, Fe)

lab / SDG No.:

2 weeks

Metals 60107471 (Al, Cd, Cr, Hg, Se, Ag)

Dioxins (8290)

lab / SDG No.:

1 week

PCBs (8082)

PCBs (8082)

lab / SDG No.:

2 days

Metals 60107471 (Al, Cd, Cr, Hg, Se, Ag)

PCBs (8082)

lab / SDG No.:

1 day

Metals 60107471 (Al, Cd, Cr, Hg, Se, Ag)

PCBs (8082)

lab / SDG No.:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Metals 6010 (Sb, As, Ba, Cu, Pb, Fe)	Metals 60107471 (Al, Cd, Cr, Hg, Se, Ag)	Dioxins (8290)	PCBs (8082)	Sample Specific Notes:
SB-82 (0.0.5)	3/21/14	9:20	C	Soil	2		X					All metals and PQL's must be @ or below
SB-82 (0.5-2)		9:25	C	S	2		X					all governing SCFL's. If this cannot be achieved please contact Maria Pages ASAP
SB-83 (0.0.5)		9:42	C	S	2		X					
SB-83 (0.5-2)		9:45	C	S	2		X					
SB-84 (0.0.5)		10:00	C	S	2		X					
SB-84 (0.5-2)		10:03	C	S	2		X					
SB-85 (0.0.5)		10:53	C	S	2		X					
SB-85 (0.5-2)		10:56	C	S	2		X					
SB-86 (0.0.5)		11:08	C	S	2		X					
SB-86 (0.5-2)		11:11	C	S	2		X					
SB-87 (0.0.5)		11:28	C	S	2		X					
SB-87 (0.5-2)		11:31	C	S	2		X					

Retention Used: 1 hr 2 hr 3 hr 4 hr 5 hr 6 hr 7 hr 8 hr 9 hr 10 hr 11 hr 12 hr 13 hr

Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Special Instructions/QC Requirements & Comments:
 Non-Hazard Flammable Skin Irritant Poison B Unknown Return to Client Disposal by Lab Archive for _____ Months

Custody Seals Intact: Yes No
 Relinquished by: *Maria Pages*
 Relinquished by: *SR*
 Relinquished by: _____

Custody Seal No.: _____
 Date/Time: *6/14/14 16:45*
 Date/Time: _____
 Date/Time: _____

Company: *SR*
 Company: *TR*
 Company: _____

Received by: *[Signature]*
 Received in Laboratory by: _____

Therm ID No.: _____
 Date/Time: *6/13/14 1645*
 Date/Time: *6/14/14 1630*

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TestAmerica Tallahassee
2846 Industrial Plaza Drive

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Tallahassee, FL 32301
phone 850.878.3994 fax

Regulatory Program: DW NPDES RCRA Other: *HVAC Pages*

TestAmerica Laboratories, Inc.

Client Contact		Project Manager: Eddy Smith		Site Contact: Brittany Odem		Date:	
7700 North Kendall Drive		Tel/Fax:		Lab Contact: Amy Marks		Carrier:	
Miami, Florida 33156		Analysis Turnaround Time		Date:		COC No.:	
305.412.8185 Phone		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS		Date:		2 of 2 COCs	
305.412.8105 FAX <i>305-412-8105</i>		TAT if different from Below		Date:		Sampler:	
Project Name: Curtis Park		<input checked="" type="checkbox"/> 2 weeks		Date:		For Lab Use Only:	
Site: 1901 NW 24th Ave, Miami, FL		<input type="checkbox"/> 1 week		Date:		Walk-in Client:	
P O #		<input type="checkbox"/> 2 days		Date:		Lab Sampling:	
		<input type="checkbox"/> 1 day		Date:		Job / SDG No.:	
				Date:		<i>14D-48133</i>	
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grnd)	Matrix	# of Cont.	Sample Specific Notes:
<i>JB-88(0-0.5)</i>		<i>3 Jun 11</i>	<i>11:48</i>	<i>C</i>	<i>Soil</i>	<i>2</i>	<i>All mold's + PALS must be at of below all governing SCATS + PALS cannot be advised contact HVAC Pages ASAP</i>
<i>SB-88(0.5-2)</i>		<i>4</i>	<i>11:51</i>	<i>C</i>	<i>S</i>	<i>2</i>	
<p>Preservation Used: <input type="checkbox"/> Ice <input type="checkbox"/> High <input type="checkbox"/> H2SO4 <input type="checkbox"/> HNO3 <input type="checkbox"/> H2O2 <input type="checkbox"/> Other</p> <p>Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.</p> <p><input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months</p> <p>Special Instructions/QC Requirements & Comments: <i>1.4E</i></p>							
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temp. (°C): Obs'd:		Term ID No.:	
Relinquished by: <i>[Signature]</i>		Company: <i>[Signature]</i>		Date/Time: <i>6/3/11 10:45</i>		Received by: <i>[Signature]</i>	
Relinquished by:		Company:		Date/Time:		Received in Laboratory by:	