Memorandum

MIAMI-DADE COUNTY

Date: September 20, 2016

To: Honorable Dennis C. Moss
Board of County Commissioners-District 9

From: Carlos A. Gimenez
Mayor

Subject: Notice of Environmental Contamination in Commission District 9

On March 3, 2009, the Board of County Commissioners adopted Resolution No. R-227-09 requiring that when environmental contamination is identified by the Department of Regulatory and Economic Resources Division of Environmental Resources Management (DERM), the Commissioner in whose District the environmental contamination is located shall be notified of such.

Pursuant to R-227-09, please be advised that the attached letter was sent to the Miami-Dade County Department of Parks, Recreation and Open Spaces (PROS), the party responsible for site rehabilitation, on July 26, 2016 due to documented arsenic soil contamination. The property is a Miami-Dade County public park. Guidance has been provided to PROS on measures to be implemented to protect the public and prevent direct exposure to the contaminated soils. The site is served by drinking water provided by the public water supply and therefore the drinking water is safe.

Please note that although arsenic soil concentrations are above the human health screening criteria, based on previous health opinions provided by the Florida Department of Health (FDOH) for Miami-Dade County regarding other park sites with greater arsenic concentrations, closing the subject park for public use is not required.

Based on the documented contamination, PROS must perform site rehabilitation action in order to bring the site into compliance with Chapter 24 of the Code of Miami-Dade County. The summary of this case is noted below:

Subject	Environmental Contamination
Facility Name:	Modello Park
DERM File #:	File-NA/HWR#863
Facility Address:	28450 SW 152 Avenue, Homestead, Florida in Miami-Dade County
Folio Number:	30-7904-000-0321 and 30-7094-000-0030
Description/Nature of Violation:	Environmental contamination requiring site rehabilitation action pursuant to Division 3, Contaminated Site Cleanups, Chapter 24, Code of Miami-Dade County, Florida.

Should you have any questions or require additional information, please contact Mr. Lee N. Hefty, Assistant Director, Division of Environmental Resources Management, Department of Regulatory and Economic Resources at (305) 372-6754 or by email at heftyl@miamidade.gov.

Attachment: Site Rehabilitation Order for Environmental Contamination

c: Jack Osterholt, Deputy Mayor/Director, Department of Regulatory and Economic Resources
Lourdes M. Gomez, Deputy Director, Department of Regulatory and Economic Resources
Lee Hefty, Director of the Division of Environmental Resources Management - RER

Memorandum

MIAMI-DADE COUNTY

Date: July 26, 2016

To: Mr. George Navarrete, Deputy Director
Department of Parks Recreation and Open Spaces (PROS)

From: Mr. Wilbur Mayorga, P.E., Chief
Environmental Monitoring & Restoration Division, DERM

Subject: Contaminated Soils at Modello Park (HWR#863/File-NA) located at, near, or in the vicinity of 28450 SW 152 Avenue (Folio # 30-7904-000-0321 and 30-7094-000-0030), Homestead, Miami-Dade, Florida.

The Department of Regulatory and Economic Resources–Division of Environmental Resources Management (DERM) collected soil samples from the above-referenced park pursuant to DERM's effort to conduct environmental screening evaluating all the accessible Miami-Dade County-owned parks, and to specifically evaluate soils at baseball fields. Please note that assessment data compiled through February 2, 2016 at the subject site indicates that arsenic is the only contaminant of concern that exceeds the human health screening criteria in the upper two feet of the soil stratum. Please see the attached maps depicting the soil contamination, the GPS data and analytical results table.

Be advised that although arsenic soil concentrations are above the human health screening criteria, based on previous health opinions provided by the Florida Department of Health (FDOH) for Miami-Dade County regarding other park sites with greater arsenic concentrations, closing the subject park for public use is not required at this time.

Based on the above, DERM requires further soil assessment to delineate the contaminated soil. Additionally, to document whether or not the arsenic contamination is consistent with background concentrations for that locale, DERM requires a representative number of discrete offsite samples to be collected from right-of-way or open areas from the 0 to 6 inch and 6 to 24 inch intervals in the vicinity of the park.

Please be advised that once the soil contamination is delineated, DERM will require the implementation of a corrective action plan to address the contaminated soil at the park. DERM finds that source removal of the contaminated soil to applicable depth(s) in order to implement a 12 inch engineering control cap consisting of a DERM-approved woven geotextile liner overlain by clean fill and sod is a feasible option for addressing the type of contamination documented at the referenced park.

DERM will work with PROS, in selecting an environmental consultant for the task of designing and implementing a corrective action appropriate for the park. Therefore, please contact Julie Balogh of DERM's Airport and Contracts Section at (305) 372-6700 to request use of the County's EDP contract for the required tasks.

Based on the above, within sixty (60) days of receipt of this memorandum, a Site Assessment Report that provides horizontal delineation of the soil contamination shall be submitted to DERM for review and approval.

DERM has the option to split any samples deemed necessary with the consultant or laboratory at the subject 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), as amended. The laboratory analyzing the samples shall perform laboratory analyses pursuant to the National Environmental Laboratory Accreditation Program (NELAP) certification requirements. If the data submitted exhibits a substantial variance from DERM split sample analysis, a complete re-sampling using two independent certified laboratories will be required.

DERM shall be notified in writing a minimum of three (3) working days prior to the implementation of any sampling or field activities. Email notifications shall be directed to DERMPCD@miamidade.gov. Please include the DERM file number on all correspondence.

Any person aggrieved by any action or decision of the DERM Director may appeal said action or decision to the Environmental Quality Control Board (EQCB) by filing a written notice of appeal along with submittal of the applicable fee, to the Code Coordination and Public Hearings Section of DERM within fifteen (15) days of the date of the action or decision by DERM.

If you have any questions concerning the above, please contact me via email at mayorw@miamidade.gov or 305-372-6700.

dc/cw
Enclosures: DERM Maps, GPS Table, Analytical Results Table
ec: Mr. Lee Hefty, DERM Director, heftyl@miamidade.gov
Ms. Julie Balogh, DERM, balogj@miamidade.gov
Ms. Lorna Bucknor, DERM, bucknl@miamidade.gov
Mr. Jorge Mora, PROS, jmora@miamidade.gov
Mr. Roque Rokovich, P.G., PROS, colinhe@miamidade.gov
Mr. Samir Elmir, PhD, P.E., FDOH-MDC, samir.elmir@flhealth.gov
Mr. Pablo Gonzalez, P.E., PROS, GP560@miamidade.gov

Modello Park
28450 SW 152 AVE
Soil Quality Map 6-24" BLS

SCALE: 0 60 120 240 360 Feet

Legend

- 2012 (5-point) composite sampling
- 2014 (4-point) composite sample
- Sample Locations 6-24" BLS
- Exceeds Park Screening Criteria
- 13.4 Arsenic (mg/kg)

2014 Digital Orthophotograph

Field collected GPS coordinates for MP-15 were inaccurate and location on map is approximated.

GPS coordinates for composite samples (2012 and 2014) were not collected. Locations are approximated.

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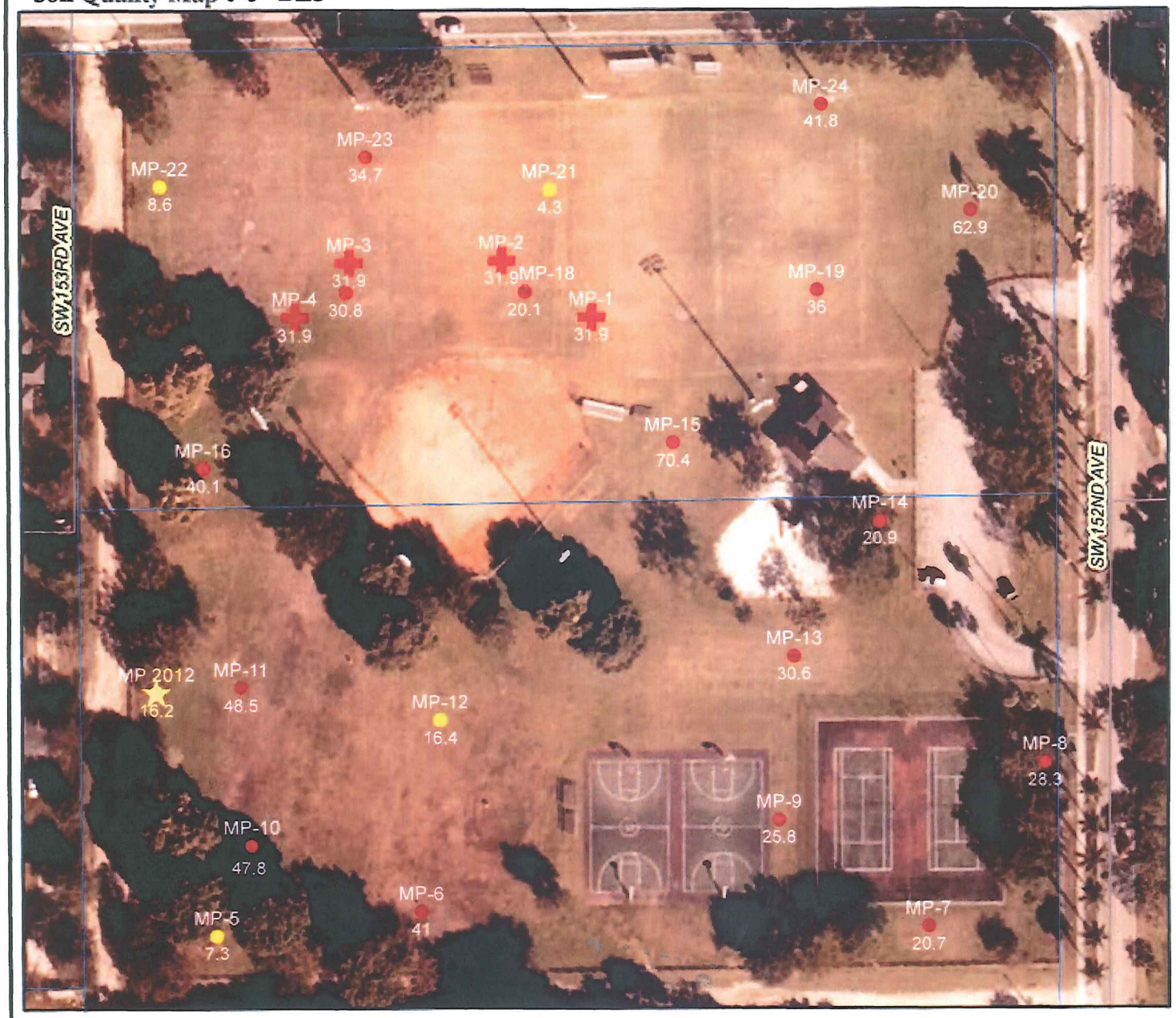
Modello Park
28450 SW 152 AVE
Soil Quality Map 0-6" BLS



SCALE: 0 60 120 240 360 Feet

Legend

- 2012 (5-point) composite sample
- 2014 (4-point) composite sample
- Sample Locations 0-6" BLS
- Exceeds Screening Criteria

13.4 Arsenic (mg/kg)

2014 Digital Orthophotograph

Field collected GPS coordinates for MP-15 were inaccurate and location on map is approximated.

GPS coordinates for composite samples (2012 and 2014) were not collected. Locations are approximated.

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W E
S

MODELLO PARK GPS COORDINATES 28450 SW 152 Avenue			
Soil Boring Id	***LAT.***	***LONG.***	***Date***
MP-5	25.50139	-80.438670	12/18/2015
MP-6	25.50143	-80.438270	12/18/2015
MP-7	25.50140	-80.437280	12/22/2015
MP-8	25.50169	-80.437050	12/22/2015
MP-9	25.50159	-80.437570	12/22/2015
MP-10	25.50155	-80.438600	12/18/2015
MP-11	25.50183	-80.438620	12/23/2015
MP-12	25.50177	-80.438230	12/18/2015
MP-13	25.50188	-80.437540	12/22/2015
MP-14	25.50212	-80.437370	12/22/2015
*MP-15	25.50227	-80.437773	10/23/2015
MP-16	25.50222	-80.438690	10/23/2015
MP-17	25.50253	-80.438410	10/23/2015
MP-18	25.50253	-80.438060	10/23/2015
MP-19	25.50253	-80.437490	12/23/2015
MP-20	25.50267	-80.437190	12/23/2015
MP-21	25.50271	-80.438010	10/23/2015
MP-22	25.50272	-80.438770	12/22/2015
MP-23	25.50277	-80.438370	10/23/2015
MP-24	25.50286	-80.437480	12/23/2015
**** Approximate Coordinates***			
Note: GPS data not collected for 2012 (5 pt. comp.) and 2014 samples (MP-1 to MP-4)			

MODELLO PARK 28450 SW 152 AVENUE

Parameter	Sampling Location	SW Corner	SW Corner	North of Baseball Field	North of Baseball Field
	Sample Depth	0-6"	6-24"	0-6"	6-24"
	Discrete/Composite	5 pt. Composite	5 pt. Composite	4 pt. Composite	4 pt. Composite
	Sample Date	5/29/2012	5/29/2012	12/8/2014	12/8/2014
	Results Received Date	7/31/2012	7/31/2012	1/8/2015	1/8/2015
Acenaphthene		0.023 u	0.0234 u	0.017 i	0.014 u
Acenapththylene		0.023 u	0.0234 u	0.017 i	0.012 u
Anthracene		0.023 u	0.0234 u	0.015 i	0.012 u
Benzo(a)anthracene		0.0706 i	0.0491 i	0.023 i	0.011 u
Benzo(a)pyrene		0.0766 i	0.0503 i	0.025 i	0.0087 i
Benzo(b)fluoranthene		0.0838 i	0.0927 i	0.031 i	0.029 u
Benzo(ghi)perylene		0.0635 i	0.0420 i	0.026 i	0.014 u
Benzo(k)fluoranthene		0.0788 i	0.0234 u	0.026 i	0.0082 u
Chrysene		0.0905 i	0.061 i	0.030 i	0.014 u
Dibenz(ah)anthracene		0.0284 i	0.0234 u	0.013 i	0.011 u
Fluoranthene		0.145	0.0943 i	0.030 i	0.012 u
Fluorene		0.023 u	0.0234 u	0.016 u	0.017 u
2-Methylnaphthalene		0.023 u	0.0234 u	0.015 u	0.015 u
1-Methylnaphthalene		0.023 u	0.0234 u	0.013 u	0.013 u
Naphthalene		0.023 u	0.0234 u	0.012 u	0.012 u
Phenanthrene		0.0508 i	0.0254 i	0.016 i	0.014 u
Pyrene		0.119 i	0.0755 i	0.029 i	0.012 u
Indeno(123-cd)Pyrene		0.0591 i	0.0394 i	0.022 i	0.015 u
TEQ		0.135	0.083	0.046	0.017
Exceeds the park screening criteria					

results in mg/kg

u - undetected at the Labs MDL

NS - Not Sampled

V-Contaminant detected in Method Blank

I - Conc. estimated between Labs MDL & PQL

MODELLO PARK 28450 SW 152 Ave.

Parameter	Sampling Location	SW Corner	SW Corner	MP-1 to MP-4 North of Baseball Field	MP-1 to MP-4 North of Baseball Field	MP-5	MP-5	MP-6	MP-6	MP-7	MP-7	MP-8	MP-8	MP-9	MP-9
	Sample Depth	0-6"	6-24"	0-6"	6-24"	0-6"	6-24"	0-6"	6-24"	0-6"	6-24"	0-6"	6-24"	0-6"	6-24"
	Discrete/Composite	5 pt. Composite	5 pt. Composite	4 pt. Composite	4 pt. Composite	Discrete	Discrete	Discrete	Discrete	Discrete	Discrete	Discrete	Discrete	Discrete	Discrete
	Sample Date	5/29/2012	5/29/2012	12/8/2014	12/8/2014	12/18/2015	12/18/2015	12/18/2015	12/22/2015	12/22/2015	12/22/2015	12/22/2015	12/22/2015	12/22/2015	12/22/2015
	Results Received Date	7/31/2012	7/31/2012	1/8/2015	1/8/2015	2/2/2016	2/2/2016	2/2/2016	REFUSAL	2/2/2016	2/2/2016	2/2/2016	2/2/2016	2/2/2016	2/2/2016
Zinc		57.6	61.8	36.4	54.7	31.2	30.6	22.7	NS	16.7	6.98j	28.4	14.5	34.6	20.4
Cadmium		0.22	0.25	0.086	0.39	0.4	0.4	1.1	NS	0.5	0.3	0.8	0.5	0.9	0.5
Lead		14.3	14.8	7.7	15.8	15.4	15.5	8.4	NS	6.3	0.9j	26.5	16.9	17.5	14
Nickel		2.8	3.1	1.7	3	5.3	5.4	5	NS	4.2	3.1j	7.3	6	7.6	8.1
Chromium		15.1	17.5	10.9	24.3	20.5	21.4	23.8	NS	15.7	12.1	29	22.4	34.6	35.5
Copper		10.3	14.4	9.1	22.5	14.2	16.5	15.9	NS	4.6	0.8	13	9.1	21.7	20.7
Arsenic		16.2	13.4	31.9	54.4	7.3	6.2	41	NS	20.7	10.6i	28.3	17.4	25.8	11.4
Aluminum		4330	5000	2450	5620	8500	9350	10800	NS	6240	4820j	1360	9470	18200	11200
Silver		0.15 u	0.013 u	0.27 i	0.43	4.1	4	3.4	NS	5.5	6.1	4.5	4.3	3.6i	3
Barium		9.6	10.3	6.5	13.8	10.2	9.2	8.9	NS	7.1	5.6	10.3	7.8	13	12.3
Iron		3940 v	4700	2070	5860	5540	4960	5560	NS	3370	2600	8200	5.24	11500	9970
Mercury		0.035	0.036	0.016	0.048	0.3u	0.3u	0.3u	NS	0.3u	0.5ij	0.3u	0.3u	0.3u	0.3u
Manganese		126	140	80.1	265	131	145	161	NS	58.5	31.8	154	97	257	193
Selenium		0.94	1	0.57 u	0.49 i	0.8u	0.8u	0.8u	NS	0.8u	0.8u	0.8u	0.8u	0.8u	0.8u
Antimony		NS	NS	0.57 u	0.89	1	1.0u	1.0u	NS	1.0u	1.0uj	1.0u	1.0u	1.0u	1.0u

Exceeds the park screening criteria

results in mg/kg
u - undetected at the Labs MDL
NS - Not Sampled
V-Contaminant detected in Method Blank
I - Conc. estimated between Labs MDL & PQL

MODELLO PARK 28450 SW 152 Ave

Parameter	Sampling Location	MP-10	MP-10	MP-11	MP-11	MP-12	MP-12	MP-13	MP-13	MP-14	MP-14	MP-15	MP-15	MP-16	MP-16
	Sample Depth	0-6"	6-24"	0-6"	6-24"	0-6"	6-24"	0-6"	6-24"	0-6"	6-24"	0-6"	6-24"	0-6"	6-24"
	Discrete/Composite	Discrete	Discrete	Discrete	Discrete	Discrete	Discrete	Discrete	Discrete	Discrete	Discrete	Discrete	Discrete	Discrete	Discrete
	Sample Date	12/18/2015	12/18/2015	12/23/2015	12/23/2015	12/18/2015	12/18/2015	12/22/2015	12/22/2015	12/22/2015	12/22/2015	10/23/2015	10/23/2015	10/23/2015	10/23/2015
	Results Received Date	2/2/2016	2/2/2016	1/26/2016	1/26/2016	2/2/2016	2/2/2016	2/2/2016	2/2/2016	2/2/2016	2/2/2016	10/29/2015	10/29/2015	10/29/2015	10/29/2015
Zinc		21.2	15.3	25.7	18.3j	14.8	11.4	16.9	28.6	29.8	26.7	NA	NA	NA	NA
Cadmium		1.2	0.4	1.1	0.2i	0.5	0.4	0.8	0.7	0.6	0.8	NA	NA	NA	NA
Lead		10.4	7.7	5.9	6.1j	5.5	8	12	18.6	14.3	17.9	NA	NA	NA	NA
Nickel		6.2	6.3	3.8	5.2j	4.3	6.5	6.8	12	5.6	6.4	NA	NA	NA	NA
Chromium		27.6	28.7	16.9	22.0j	18.2	28.8	30.1	48.5	25.6	29.8	NA	NA	NA	NA
Copper		15.7	19.8	6.8	5.6	14.4	20.4	17	29.5	13	16.2	NA	NA	NA	NA
Arsenic		47.8	8.9	48.5	9.5	16.4	7.9	30.6	18.1	20.9	29.1	70.4	14.4	40.1	15.6
Aliminum		11700	12900	7570	9570j	16900	15900	15500	23300	12200	15200	NA	NA	NA	NA
Silver		4.3	3.6	2.6	4.3	3.3	3.6	4.3	3.3	2.7i	3.6i	NA	NA	NA	NA
Barium		8.8	7.7	8	6.4j	6.9	9.8	9.3	15.9	10.5	10.7	NA	NA	NA	NA
Iron		6970	7560	4290	4950	9310	8230	8190	14700	8270	10450	NA	NA	NA	NA
Mercury		0.3u	4.5	0.3u	0.3j	0.3u	0.3u	0.3u	0.3u	0.3u	0.3u	NA	NA	NA	NA
Manganese		193	211	89.9	106	255	176	214	368	144	216	NA	NA	NA	NA
Selenium		0.8u	0.8u	0.8u	0.8j	0.8u	0.8u	0.8u	0.8u	0.8u	0.87u	NA	NA	NA	NA
Antimony		1.0u	1.0u	1.0u	1.0ij	1.0u	1.0u	1.0u	1.0u	1.0u	1.0u	NA	NA	NA	NA

Exceeds the park screening criteria

results in mg/kg
u - undetected at the Labs MDL
NS - Not Sampled
I - Conc. estimated between Labs MDL & PQL
J - Matrix spike is either above or below QC limits

MODELLO PARK 28450 SW 152 Ave.

Parameter	Sampling Location	MP-17	MP-17	MP-18	MP-18	MP-19	MP-19	MP-20	MP-20	MP-21	MP-21	MP-22	MP-22	MP-23	MP-23	MP-24	MP-24
	Sample Depth	0-6"	6-24"	0-6"	6-24"	0-6"	6-24"	0-6"	6-24"	0-6"	6-24"	0-6"	6-24"	0-6"	6-24"	0-6"	6-24"
	Discrete/Composite	Discrete	Discrete	Discrete	Discrete	Discrete	Discrete	Discrete	Discrete	Discrete	Discrete	Discrete	Discrete	Discrete	Discrete	Discrete	Discrete
	Sample Date	10/23/2015	10/23/2015	10/23/2015	10/23/2015	12/23/2015	12/23/2015	12/23/2015	12/232015	10/23/2015	10/23/2015	12/22/2015	12/22/2015	10/3/2015	10/23/2015	12/23/2015	12/23/2015
	Results Received Date	10/29/2015	10/29/2015	10/29/2015	10/29/2015	1/26/2016	1/26/2016	1/26/2016	1/26/2016	10/29/2015	10/29/2015	1/26/2016	1/26/2016	10/29/2015	10/29/2015	1/26/2016	1/26/2016
Zinc		NA	NA	NA	NA	20.8	58	50	15.1	NA	NA	18.8	76.6	NA	NA	33	39.6
Cadmium		NA	NA	NA	NA	0.9	0.8	1.5	0.9	NA	NA	0.2i	1	NA	NA	1.1	0.8
Lead		NA	NA	NA	NA	7	26.4	20	7.4	NA	NA	3.3	13.2	NA	NA	11	13.6
Nickel		NA	NA	NA	NA	2.3	5.6	4.4	5.1	NA	NA	1.8	6.7	NA	NA	3.8	7.3
Chromium		NA	NA	NA	NA	11.9	27.2	22.6	20.8	NA	NA	7.7	31	NA	NA	19.8	25.8
Copper		NA	NA	NA	NA	5.8	20.3	12.6	6.4	NA	NA	3.2	13.4	NA	NA	9.6	12.9
Arsenic		30.8	70.4	20.1	42.4	36	19.8	62.9	43.5	4.3	35.8	8.6	33.9	34.7	19.1	41.8	23.2
Aliminum		NA	NA	NA	NA	3730	10300	7740	11600	NA	NA	3290	13600	NA	NA	5850	10200
Silver		NA	NA	NA	NA	3.4	3.7	3.2	4.7	NA	NA	0.8i	2.6	NA	NA	3.1	4.3
Barium		NA	NA	NA	NA	7.2	13.3	8.4	9.1	NA	NA	7.4	10.4	NA	NA	7.3	9.2
Iron		NA	NA	NA	NA	2080	6320	4180	6910	NA	NA	1810	9070	NA	NA	3620	5270
Mercury		NA	NA	NA	NA	0.3u	0.3u	0.3u	0.3u	NA	NA	0.3u	0.3u	NA	NA	0.3u	0.3u
Manganese		NA	NA	NA	NA	75.3	206	176	222	NA	NA	34.6	196	NA	NA	123	151
Selenium		NA	NA	NA	NA	0.8u	0.8u	0.8u	0.8u	NA	NA	0.8u	0.8u	NA	NA	0.8u	0.8u
Antimony		NA	NA	NA	NA	1.0i	1.0u	1.0u	1.3i	NA	NA	1.0u	1.0u	NA	NA	1.0u	1.0u

Exceeds the park screening criteria

results in mg/kg

u - undetected at the Labs MDL

I - Conc. estimated between Labs MDL & PQL

J - Matrix spike is either above or below QC limits