

April 24, 2017

Mr. Lawrence Browne
Los Angeles Unified School District
Office of Environmental Health And Safety
333 North Beaudry Street, 21st Floor
Los Angeles, CA 90017

**SITE: GROVER CLEVELAND CHARTER HIGH SCHOOL
8140 VANALDEN STREET
RESEDA, CALIFORNIA 91335**

SUBJECT: TECHNICAL MEMORANDUM ON HOUSEKEEPING ACTIVITIES

Dear Mr. Browne:

Pinnacle Environmental Technologies (Pinnacle) has prepared the following Technical Memorandum describing the housekeeping tasks performed at the Grover Cleveland Charter High School (the school). The school is owned and operated by the Los Angeles Unified School District (LAUSD). These tasks consisted of completing six small excavations at locations selected based on the results and conclusions generated by a Preliminary Environmental Assessment – Equivalent (PEA-E) completed by Pinnacle. The excavations were located in the portion of the school campus previously selected for future modernization and investigation by the PEA-E (the project area).

1.0 BACKGROUND

Pinnacle performed soil sampling at 85 boring locations in five Areas of Concern (AOC-1 through AOC-5) (B1 through B85). Soil samples were collected at depths of 0.5, 1.5 and 2.5 feet below ground surface (bgs) at 84 of the 85 locations. Soil vapor samples were collected from pairs of soil vapor probes installed at 3.5 and 13.5 feet bgs at two locations in AOC-1 (SV1 and SV2).

Based on the analytical results from these soil and soil vapor samples, Pinnacle recommended the removal of soil from six locations. The chosen locations were those with lead concentrations exceeding the LAUSD screening level of 80 milligrams of kilograms (mg/kg), arsenic exceeding the screening level of 12 mg/kg, or trichloroethene (TCE) concentration in soil vapor exceeding the screening level of 480 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$).

Pinnacle provided OEHS an Amendment request consisting of a scope of work and estimated cost based on competitive subcontractor bids. OEHS sent Pinnacle an approval dated February 8, 2017 to begin the work.

2.0 SCOPE OF WORK

Pinnacle planned to remove soil from the following previously advanced boring locations: B7, B10, B37, B54, B58 and SV2. The intended excavation parameters at these locations are provided on the attached table. The depths of the excavations at the soil boring locations were defined by previously generated laboratory data for the project area presented in the Pinnacle PEA-E. The depth of the excavation at soil vapor probe location SV2 was chosen to exceed the depth of the shallower probe where the highest TCE vapor concentration was observed (Table 1).

Pinnacle marked the corners of the excavation boundaries on the morning of April 6, 2017, as required by Underground Services Alert of Southern California (DigAlert). DigAlert was notified on the same date regarding the intended subsurface work and was issued number A70961222 to identify the intended subsurface work and to notify effected member locaters. None of the excavations needed to be moved based on the information generated by the DigAlert locaters. Pinnacle also requested that Spectrum Geophysics identify the utilities in the vicinity of the planned excavations. Based on their work, the excavation at boring B54 was moved approximately one foot and made slightly narrower to avoid utilities.

The soil intended for excavation and disposal was profiled for disposal at South Yuma County Landfill (Yuma). It was accepted as a California (non-RCRA) hazardous waste containing lead and arsenic. Laboratory results generated during the PEA-E were sufficient to perform profiling. The profile approval is attached to the memo.

Stronagrm Environmental Field Services performed the excavations and saw-cut the overlying asphalt at locations B54, B58 and SV2. The remaining excavations were in landscaped areas. The excavations were advanced by hand where utilities were known or suspected. Several holes had PVC irrigation lines that were preserved. A Bobcat with a mini-

April 24, 2017

Grover Cleveland
Charter High School

Technical Memorandum
Housekeeping Activities

backhoe was used to excavate in areas with no utilities. Belshire Environmental Services (Belshire) provided an 18-yard covered bin with a plastic liner for soil transport and disposal. Only soil was loaded into the bin. The Bobcat was also used to move soil to the bin from the excavations. While Yuma also accepted disposal of the asphalt, Strongarm transported the asphalt to their shop to reduce bin weight and disposal costs.

The excavations were backfilled with top soil imported from Whittier Fertilizer, an OEHS pre-approved soil provider. The soil was placed in each hole in one- to two-foot lifts and compacted using a rammer while avoiding piping at depth. The excavations at boring locations B54, B58 and SV2 were paved with compacted hot asphalt by Empire Parking Lot Services to match the surrounding surface. The remaining excavations were backfilled with soil to the surface. Imported soil remaining from backfill activities was placed in surface depressions throughout AOC-3. Work areas were swept of soil and tire dust produced when the Bobcat moved material from the excavations to the bin.

Since access to the school was not available on April 14, 2017, Pinnacle arranged to meet Belshire at the school to remove the bin early on the morning of April 17, 2017 prior to the arrival of students and staff. The bin is scheduled for transport from the Belshire facility to Yuma on April 24, 2017. The manifest and weight ticket for the load is also attached to this memo.

Please contact us (949) 470-3691 if you have any questions regarding this memo.

Sincerely,

PINNACLE ENVIRONMENTAL TECHNOLOGIES



Keith G. Thompson, P.G., C.Hg.
Principal

Attachments: Project Area Figures
Excavation Area Table
South Yuma County Landfill Profile Form and Manifest/Weight Ticket
Photographs

TABLE 1
EXCAVATION LOCATION SUMMARY

GROVER CLEVELAND HIGH SCHOOL
8140 Vanalden Avenue
Reseda, California

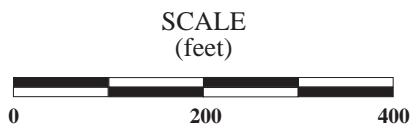
Boring Number	Area of Concern	Building or Area	Removal Based On	Excavation Depths	Excavation Area
B7	1	Northeast corner of Utility Building	Lead in soil at 0.5' greater than screening level of 80 mg/kg	1.5'	4' by 4'
B10	1	In planter, north side of Building L	Arsenic in soil at 0.5' greater than screening level of 12 mg/kg	1.5'	4' by 4'
SV2	1	West of Interceptor	TCE in soil vapor greater than screening level of 460 ug/m ³	4'	4' by 4'
B37	2	In planter, northeast corner of Building J	Lead in soil at 0.5' greater than screening level of 80 mg/kg	1.5'	4' by 4'
B54	3	West of buildings AA-2199 and AA-3887	Lead in soil at 0.5' greater than screening level of 80 mg/kg	1.5'	3' by 4'
B58	3	Drain at southeast corner of storage building	Arsenic in soil at 0.5' and 1.5' greater than screening level of 12 mg/kg	2.5'	4' by 4'

NOTES:

TCE - Trichloroethene

mg/kg - milligrams per kilogram

ug/L - micrograms per liter

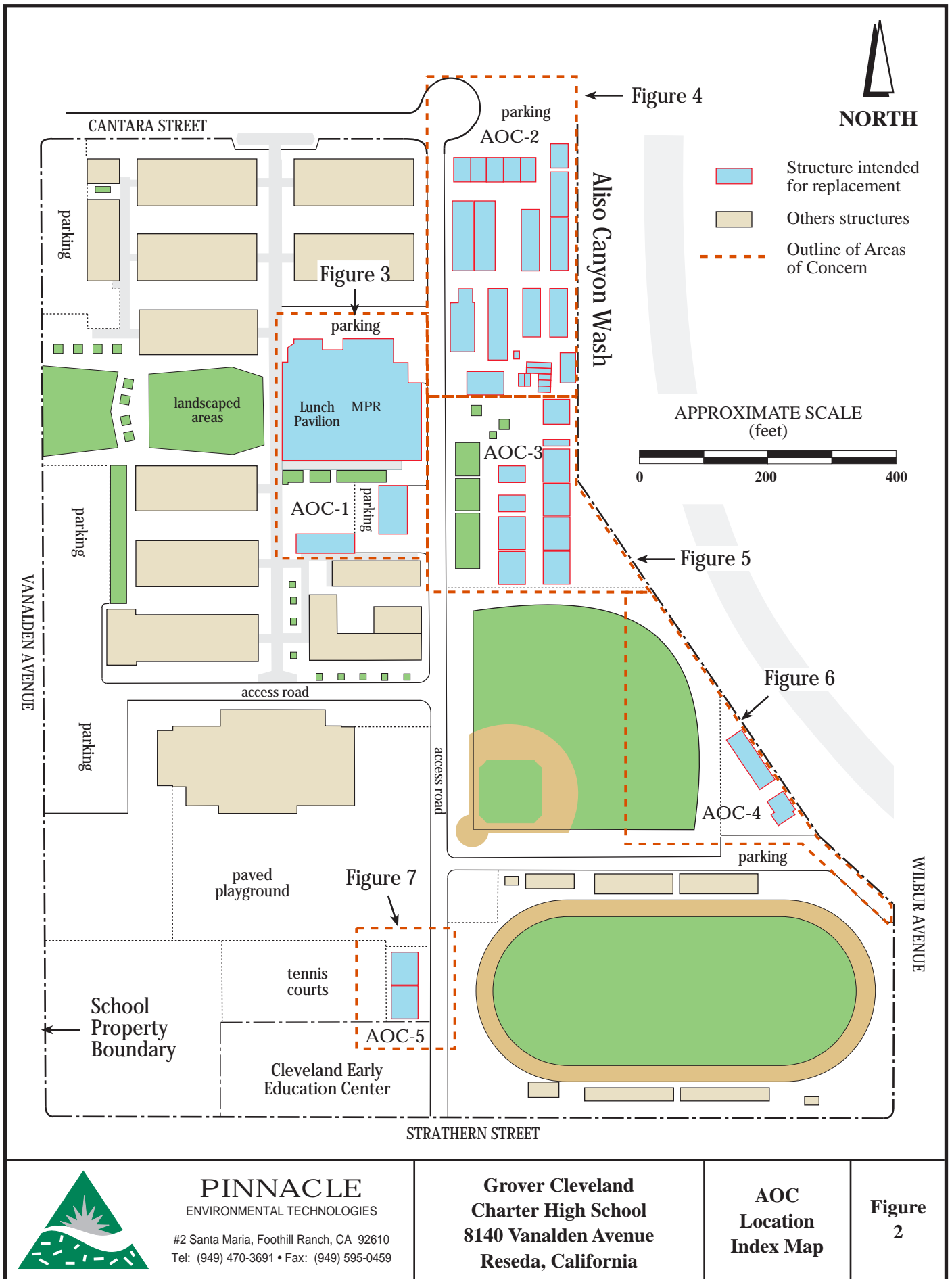


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#2 Santa Maria, Foothill Ranch, CA 92610
Tel: (949) 470-3691 • Fax: (949) 595-0459

**Grover Cleveland
Charter High School
8140 Vanalden Avenue
Reseda, California**

**Site
Location
Map**

**Figure
1**



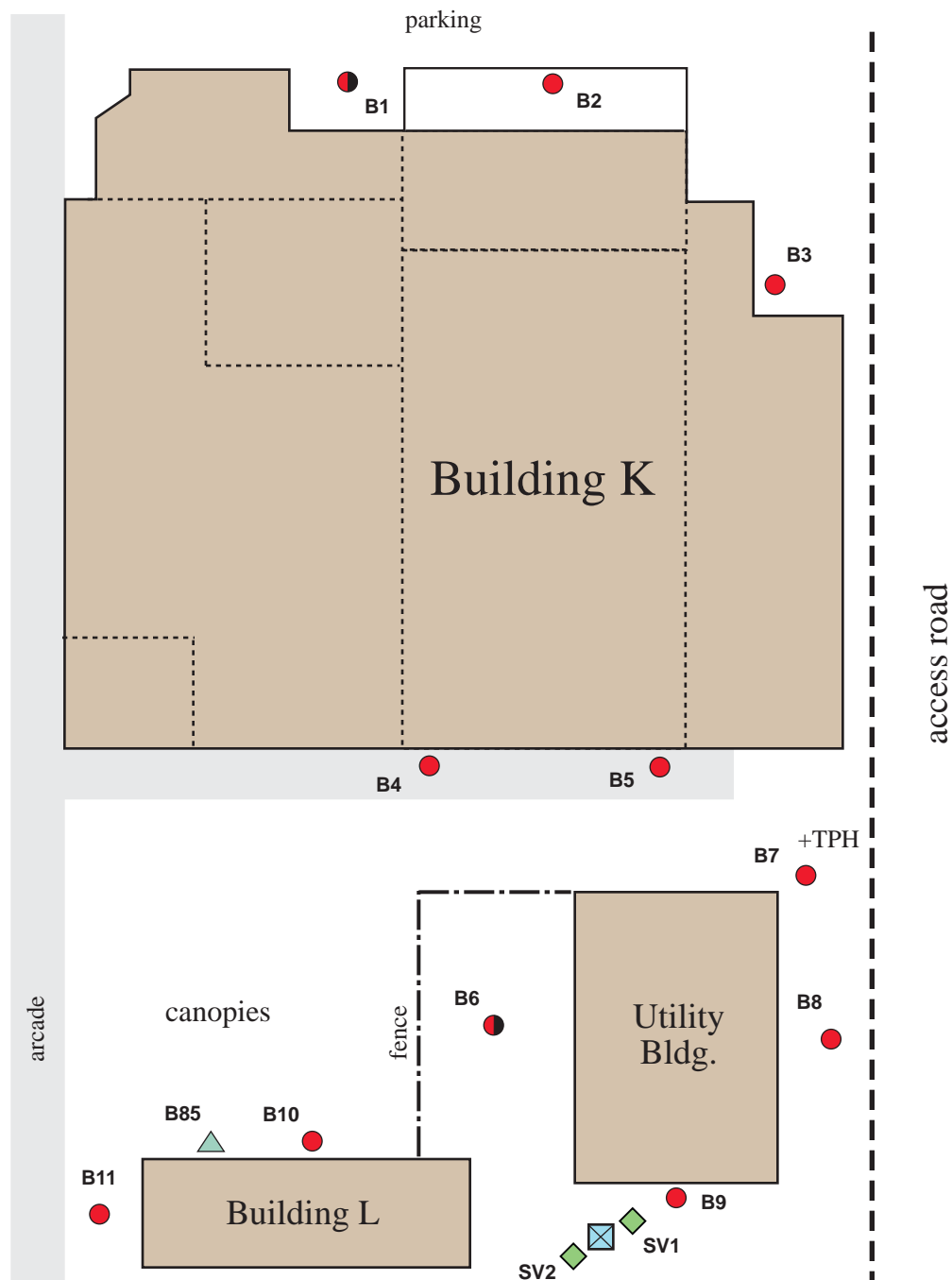
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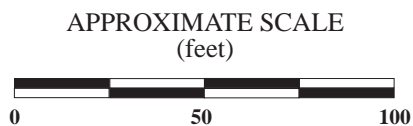
**Grover Cleveland
Charter High School
8140 Vanalden Avenue
Reseda, California**





**AOC
Location
Index Map**

**Figure
2**



-  Interceptor location
-  Structures intended for removal



-  B85 Stepout soil sampling locations with boring number, arsenic analysis
-  B6 Initial soil sampling locations with boring number, arsenic analysis
-  B8 Initial soil sampling locations with boring number, lead, arsenic and OCP analysis
-  SV2 Soil and soil vapor sampling location with location number, TPH, metals and VOCs analysis for soil, VOCs analysis for soil vapor

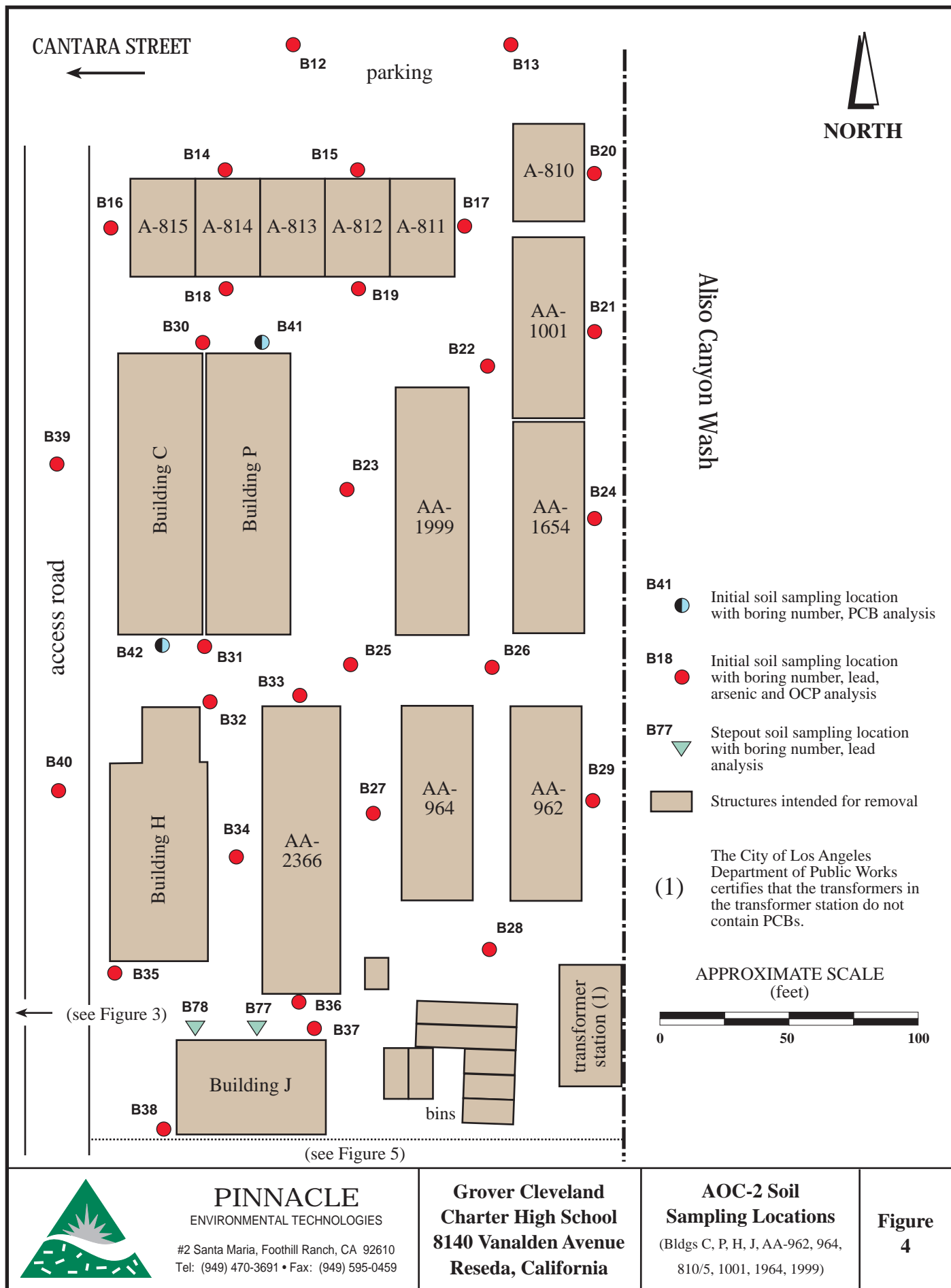


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**AOC-1
Soil Sampling
Locations
(Bldgs K, L, Util)**

**Figure
3**

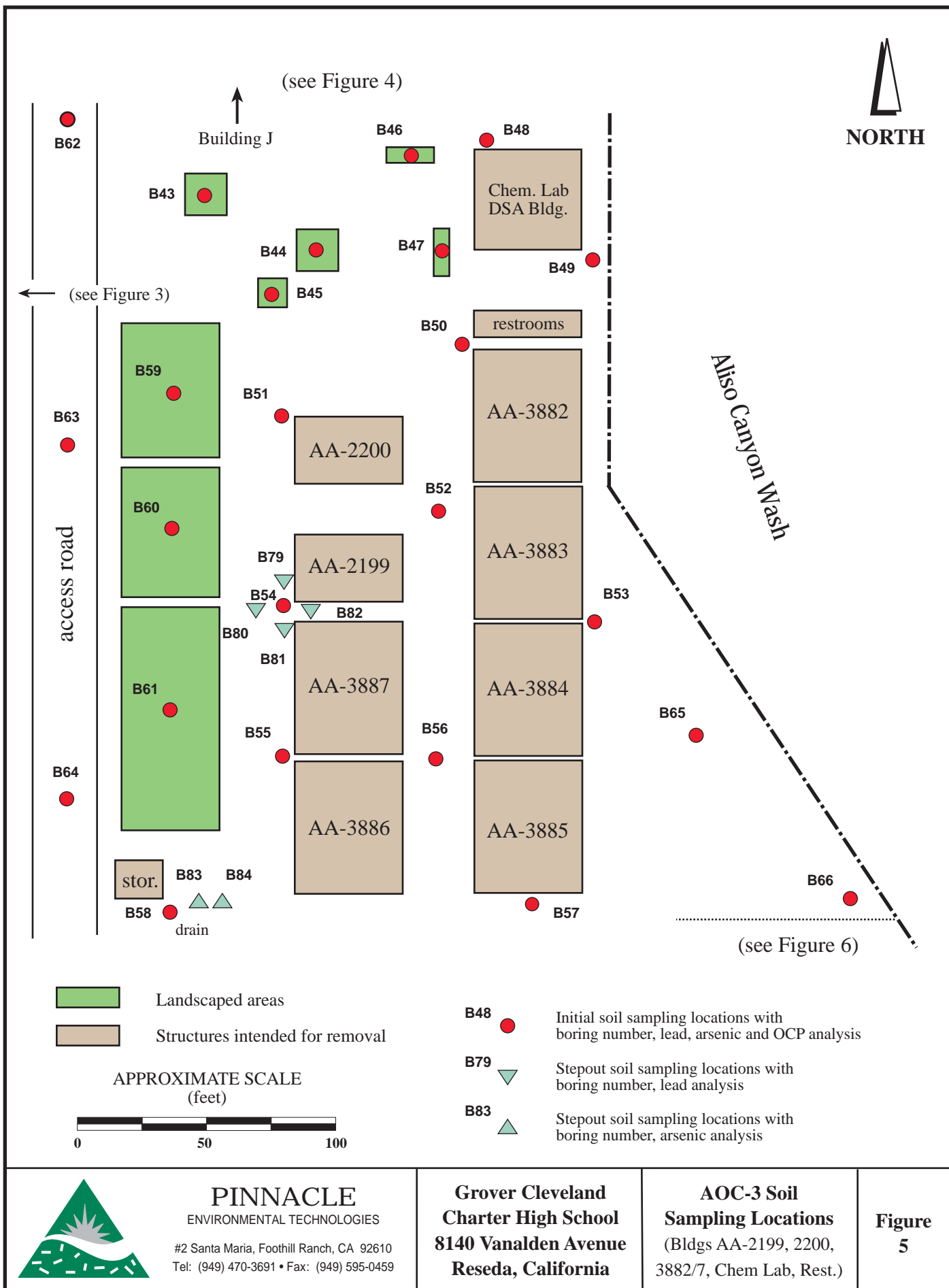


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**AOC-2 Soil
Sampling Locations**
(Bldgs C, P, H, J, AA-962, 964,
810/5, 1001, 1964, 1999)

**Figure
4**



SOUTH YUMA COUNTY LANDFILL - GENERATOR WASTE PROFILE SHEET

PLEASE COMPLETE ALL SECTIONS - THIS FORM MUST BE TYPED - DO NOT HANDWRITE

New Profile ☒ Profile Renewal ☐ Approval No: _____

I. GENERATOR INFORMATION

DATE: 12/17/15

GENERATOR NAME: L.A.U.S.D. - Cleveland High School (EPA #CAD982039281)

GENERATOR SITE ADDRESS: 8140 Vanalden Ave.

CITY: Reseda COUNTY: Los Angeles County STATE: CA ZIP: 91335

GENERATOR MAILING ADDRESS: 333 S. Beaudry Ave., 21st Floor

CITY: Los Angeles COUNTY: Los Angeles STATE: CA ZIP: 90017

GENERATOR CONTACT NAME: Brian Cass (Belshire)

PHONE NUMBER: (949) 460-5200 FAX NUMBER: (949) 460-5210 Email: brian@belshire.com

II. TRANSPORTER INFORMATION

TRANSPORTER NAME: BELSHIRE Contact Name: BRIAN CASS

TRANSPORTER ADDRESS: 25971 Towne Centre Dr.

CITY: Foothill Ranch COUNTY: Orange County STATE: ZIP: 92610

PHONE NUMBER: (949) 460-5200 FAX NUMBER: (949) 460-5210 Email: brian@belshire.com

III. FINANCIAL RESPONSIBILITY (Billing Information)

NAME: BELSHIRE ENV. SERVICES, INC. PHONE: (949) 460-5200 E-MAIL: brian@belshire.com

ADDRESS: 25971 Towne Centre Dr. CITY: Foothill Ranch STATE & ZIP: CA, 92610

IV. WASTE STREAM INFORMATION

NAME OF WASTE: **NON-RCRA SOIL (with Lead & Arsenic)**

PROCESS GENERATING WASTE: Excavation/Remediation -- Soil contaminated with Metals encountered during upgrade activities.

PHYSICAL STATE: ☒ SOLID ☐ SEMI-SOLID ☐ LIQUID

METHOD OF SHIPMENT: ☒ BULK ☐ DRUM ☐ BAGGED/BOXED ☐ TOTES ☐ OTHER:

ESTIMATED QUANTITY, *must state volume*: 40.00 ☒ TONS or ☐ GALLONS

SPECIAL HANDLING INSTRUCTIONS: Wear All Appropriate Personal Protective Equipment.

V. PHYSICAL CHARACTERISTIC COMPONENTS OF WASTE

BY % RANGE

	TYPE OF WASTE	1% TO 99.9%
1	SOIL	99-100%
2	LEAD (TTLC = ND to 190 mg/kg / STLC = ND to 6.7 mg/l / TCLP = ND)	< 0.02%
3	ARSENIC (TTLC = ND to 65 mg/kg / STLC = ND to 6.6 mg/l)	< 0.007%
4	TPH (ND to 28 mg/kg)	< 0.003%

Color	Odor (describe)	Liquids (circle)	% Solid	pH:	Flash Point:
Brown / White	None	YES <input type="radio"/> NO <input checked="" type="radio"/>	100.00	N/A	N/A

SOUTH YUMA COUNTY LANDFILL

PO BOX 125; Staton, CA 90680-0125

928-341-9300

ACCOUNT#: BELSHIRE

TRANSACTION INFORMATION

BELSHIRE ENVIRONMENTAL SERVC
25971 TOWNE CENTRE DR.

TICKET# : 1196338

DATE IN : 4/25/2017 TIME IN : 07:36 AM

DATE OUT: 4/25/2017 TIME OUT: 07:59 AM

FOOTHILL RANCH, CA92610

JOB #: C-4327

HAULER: BELSHIRE ENVIRONMENTAL SERVC

TRUCK LICENSE #:

TRUCK # : 567

CONTAINER #:

PLEASE NOTE: Account Customers Only: A State of Arizona per ton landfill fee of \$0.25 will be added to your Inv.

REFUSE

NON -HAZ SOIL

WEIGHT IN

WEIGHT OUT

NET WEIGHT

43540 LBS

28760 LBS

7.39 TONS

CUSTOMER SIGNATURE


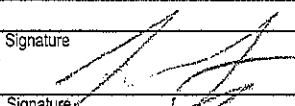
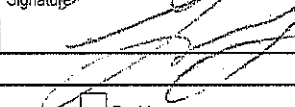
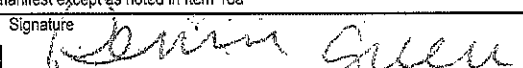
WEIGHMASTER/DEPUTY

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT AND MEASURE

THIS IS TO CERTIFY that the above described merchandise, was weighed, counted, or measured by the public or deputy weighmaster, and when properly signed, and sealed, shall be prima facie evidence of the accuracy of the weight shown as prescribed by law.

Keyed Weigh Out

form-m

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number CAD982039201	2. Page 1 of 1	3. Emergency Response Phone (913) 703-3294	4. Manifest Tracking Number 009696096 FLE		
5. Generator's Name and Mailing Address L.A.U.S.D. - OHS (Attn: Bill Piazza) 333 S. Beaudry Ave., 21st Floor Los Angeles, CA 90017				Generator's Site Address (if different than mailing address) LAUSD - Cleveland High School 8140 Vandalen Ave. Riverside, CA 91335			
Generator's Phone: (213) 241-3199							
6. Transporter 1 Company Name BELSHIRE				U.S. EPA ID Number CAR000183913			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address South Yuma County Landfill 19536 South Avenue 1E Yuma, AZ 85365				U.S. EPA ID Number AZR000506980			
Facility's Phone: (928) 341-9300							
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
	1. Non-RCRA Hazardous Waste, Solid (Soil Impacted with Lead & Arsenic)	1	CM	10	Y	611	
	2.						
	3.						
	4.						
14. Special Handling Instructions and Additional Information ERG #: 171 WEAR ALL APPROPRIATE PROTECTIVE CLOTHING 9b.1. Soil Impacted with Lead & Arsenic BEST: 280886 PROFILE# C-4327							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offor's Printed/Typed Name BILL PIAZZA				Signature 		Month Day Year 4 15 17	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name Jayson Johnson				Signature 		Month Day Year 4 17 17	
Transporter 2 Printed/Typed Name Jayson Johnson				Signature 		Month Day Year 4 17 17	
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
Manifest Reference Number:							
18b. Alternate Facility (or Generator) U.S. EPA ID Number							
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator) Month Day Year							
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1.		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name Benjamin Green				Signature 		Month Day Year 4 15 17	

**EXCAVATION
PHOTOGRAPHS**



Photograph 1 – Boring B7 location after excavation.



Photograph 2 – Boring B7 location after backfilling.



Photograph 3 – Boring B10 after excavation.



Photograph 4 – Boring B37 after backfilling.



Photograph 5 – Boring B54 after backfilling and paving.



Photograph 6 – Vapor probe SV2 after excavation.



Photograph 7 – Vapor probe SV2 after excavation, second view.



Photograph 8 – Vapor probe SV2 excavation after backfilling and paving.



Photograph 9 – Boring B58 after excavation.



Photograph 10 – Boring B58 after backfilling and paving.