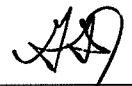

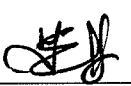



<b>CITY OF LAS VEGAS</b>	<u><b>DEPARTMENT of BUILDING and SAFETY</b></u> <b>OFFSITE INSPECTION and TESTING SECTION</b> <u><b>Materials Testing Laboratory</b></u>			Procedure No.: <u><b>106</b></u>
	Procedure: <b>Native Soil In-Lieu of (NILO) Imported Subbase Aggregate Report</b>			Page 1 of 6

Revision Number	Prepared By	Reviewed By	Approved By	Date Issued
<b>0</b>	<b>GGJ</b>	<b>GGJ</b>	<b>DM</b>	<b>GGJ</b>
Date	11-8-01	9-17-01	9-17-01	9-17-01
<b>1</b>	<b>GGJ</b>	<b>GGJ</b>	<b>DM</b>	<b>GGJ</b>
Date	7-11-02	9-18-02	10-8-02	10-8-02
<b>2</b>	<b>GGJ</b>	<b>GGJ</b>	<b>DM</b>	<b>GGJ</b>
Date	6-9-03	6-23-03	7-1-03	7-1-03
<b>3</b>	<b>GGJ</b>	<b>GGJ</b>	<b>TEH</b>	<b>GGJ</b>
Date	5-07-06	3-8-07	3-8-07	3-8-07
<b>4</b>	<b>GGJ</b>	<b>GGJ</b>	<b>TEH</b>	<b>GGJ</b>
Date	7-16-08	9-24-08	10-13-08	10-13-08
<b>5</b>				
Date	6-6-11	1-15-13	1-24-13	1-24-13
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# DEPARTMENT of BUILDING and SAFETY

## OFFSITE INSPECTION and TESTING SECTION

### Materials Testing Laboratory

City of Las Vegas

## Use of Native Soils In-lieu of (NILO) Imported Aggregate Subbase Material for Public and Private Offsite Improvements

### Procedure No. 106 Revision 5

*The italicized and underlined sections of this policy note Revision 5 changes.*

LAS VEGAS  
CITY COUNCIL

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STAVROS S. ANTHONY  
MAYOR PRO TEM

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702-386-9108

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702-229-6092

PERMITS  
702-229-6251

INSPECTIONS  
702-229-6914

OFF-SITE INSPECTIONS  
702-229-6337

CODE ENFORCEMENT  
702-229-6615

LAND DEVELOPMENT  
702-229-6371

#### 1.0 PURPOSE:

1.1 This policy establishes the guidelines by which the City of Las Vegas (CLV) will review and approve the use of Native Soils In-Lieu of (NILO) Imported Type I Aggregate Subbase materials for Access Roads, Alleys, curb/gutter, Cross Gutter, and Sidewalk Drain.

1.2 NILO material is defined as undisturbed in-situ (in place) native material (prior to processing). It is not imported material of any nature. The Public Offsite area is defined from the back of sidewalk to back of sidewalk. The Private Offsite area is defined from the back of curb to back of curb on private streets. The CLV Quality Assurance (QA) Program is limited to monitoring the NILO material with periodic tests for public and private offsite improvements.

#### 2.0 REFERENCE CODES AND STANDARDS:

##### 2.1 Associated CLV Procedures:

- 2.1.1 101 - Submittal of Construction Phase Report
- 2.1.2 107 - Offsite Grading Report

##### 2.2 Clark County Uniform Standard Specifications and Drawings:

- 2.2.1 Section 105, "Control of Work"
- 2.2.2 Section 704 "Base Aggregates"
- 2.2.3 Standard Drawings
  - 2.2.3.1 203, 205, 207, 234 "Curb / Gutter"
  - 2.2.3.2 228, 229 "Cross Gutter"; 236 "Sidewalk Drain"
  - 2.2.3.3 218 "Median Island"
  - 2.2.3.4 209, 209A "Access Road"
  - 2.2.3.5 214 "Alley"

2.2.4 Other:

- 2.2.4.1 NRS 338.176, NAC 625.550, the most current ASTM, AASHTO, NDOT test procedures as indicated in the applicable sections of the Uniform Standard Specifications.

3.0 **STATEMENT OF POLICY:**

3.1 **Submittal:**

- 3.1.1 Submittal format shall be completed in accordance with the current CLV procedure and in compliance with the NRS 338.176 and NAC 625.550 statutes.
- 3.1.2 The project developer or their representative, the project Quality Control Company (QC) shall submit a transmittal letter and Native Soils In-Lieu of (NILO) Imported Aggregate Subbase Report to the CLV for review and approval. The report shall be submitted and approved prior to utilization of the material.

4.0 **REPORTS:**

4.1 **General Requirements for Report Content:**

- 4.1.1 The report shall include, at a minimum, the following information:
- 4.1.1.1 Revised reports shall include the date of the report being superseded, as well as the revision date.
- 4.1.1.2 Project / Permit Name *as shown on the CLV Off-Site Construction Permit Hard Card.*
- 4.1.1.3 Project / Permit Number, *for civil permits, as shown on the CLV Off-Site Construction Permit Hard Card.*
- 4.1.1.4 Project / Permit Plan Number *as shown on the CLV Off-Site Construction Permit Hard Card.*
- 4.1.1.5 Referenced Reports shall be identified by the accepted QC report issue date and CLV acceptance letter date.
- 4.1.1.6 The report must be prepared by, or under the direction of a Professional Engineer registered in the State of Nevada. The report shall be signed and stamped by the responsible engineer.
- 4.1.1.7 Use the appropriate approved project Plan and Profile sheets to determine the specific location for the area being submitted for review and acceptance **for this report**. The locations shall be noted in the text of the report in a similar format as shown below:

Street Name	AREA (S) OF ACCEPTANCE							
	Access Road NILO	Alley NILO	Curb / Gutter		Cross Gutter NILO	Station	to	Station
			NILO	Side				
				N,S,E,W				

NOTE 1: If street names are revised after a construction phase report has been submitted to the CLV and approved by the CLV, subsequent construction phase reports shall reference the original street name as well as the revised street name.

4.1.1.8 The report shall contain a statement that verifies that the material complies with the requirements and recommendations of the project geotechnical report, project plans, specifications, and current CLV policies and procedures

4.1.1.9 Sieve Analysis.

4.1.1.10 Plastic Index.

4.1.1.11 Proctor information per current AASHTO T180 procedure and include a curve for each material type.

4.1.1.12 Plot plan with sample locations identified and areas indicated that are represented by the sample. The accepted area shall be in such a manner that the area is identifiable on "Xerox" copies.

4.1.1.13 If testing is provided by another laboratory, that data shall be stamped by the responsible engineer and included in the report.

**4.2 Additional Requirements for Interim Report:**

4.2.1 Interim (partial area release) reports for specific areas of work (i.e., utility trenches in the interior / exterior street areas and / or portion of those areas) are acceptable; however they shall be referenced in the Final Interim Native Soils In-Lieu of (NILO) Imported Subbase Aggregate Material Report.

4.2.2 The report title shall be **Interim Native Soils In-Lieu of (NILO) Imported Subbase Aggregate Report.**

**4.3 Additional Requirements for Final Report:**

4.3.1 This is the **last report**, for this phase of work, if Interim Reports were issued. It is the **only report** if Interim Reports were not issued.

4.3.2 The report title shall be **Final Native Soils In-Lieu of (NILO) Imported Subbase Aggregate Report**

4.3.3 Referenced CLV approved reports.

4.3.3.1 Interim Native Soils In-Lieu of (NILO) Imported Subbase Aggregate Report

4.3.3.2 *Previously submitted* report information / test data included with approved reports, per section 4.1.1.5, shall not be included with the Final Report

**5.0 SAMPLING AND TESTING:**

**5.1 Access Roads and Alleys:**

5.1.1 The material must be obtained and tested by a laboratory that is AASHTO Accredited in the procedures being reported. The most current ASTM, AASHTO, NDOT test procedures shall be used. Testing requirements shall be from the applicable sections of the Uniform Standard Specifications and current CLV policies and procedures.

NOTE 2: The requirement for the AASHTO Accreditation *is* mandatory for all laboratories performing work submitted to the City of Las Vegas, Offsite Inspection and Testing, effective March 1, 2008. Laboratories that are not accredited in the test procedures being submitted shall contact the City of Las Vegas, Offsite Inspection and Testing *Materials Testing Laboratory* prior to Submitting the test information.

5.1.2 The NILO Type I Aggregate Subbase material shall meet the requirements of Clark County Standard Specifications Section 704.

5.1.3 Samples shall be obtained and tested for every 1000 lineal feet and fraction thereof. A minimum of two (2) samples per project. If interior and exterior areas are included in the project, representative samples shall be obtained from both areas.

5.1.4 Native soils approved for NILO Type I Aggregate Subbase shall be processed to a minimum depth of eight (8) inches and compacted to a minimum density of 95% (AASHTO T180). Rocks larger than three (3) inches will not be allowed within the NILO Type I Aggregate Base section.

**5.2 Curb / Gutter, Cross Gutter, Median Island, and Sidewalk Drain:**

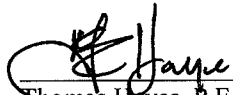
5.2.1 The material must be obtained and tested by a laboratory that is AASHTO Accredited in the procedures being reported. The most current ASTM, AASHTO, NDOT test procedures shall be used. Testing requirements shall be from the applicable sections of the Uniform Standard Specifications and current CLV policies and procedures.

NOTE 3: The requirement for the AASHTO Accreditation *is* mandatory for all laboratories performing work submitted to the City of Las Vegas, Offsite Inspection and Testing, effective March 1, 2008. Laboratories that are not accredited in the test procedures being submitted shall contact the City of Las Vegas, Offsite Inspection and Testing prior to submitting the test information.

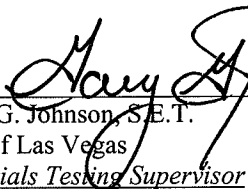
- 5.2.2 The NILO Type I Aggregate Subbase shall meet the requirements (sieve and plasticity Index ONLY) of Clark County Uniform Standard Section 704.
- 5.2.3 Samples shall be obtained and tested for every 1000 lineal feet and fraction thereof. A minimum of two (2) samples per project. If interior and exterior areas are included in the project, representative samples shall be obtained from both areas.
- 5.2.4 Native soils approved for NILO Type I Aggregate Subbase shall be processed to a minimum depth of eight (8) inches and compacted to a minimum density of 95% (AASHTO T180). Rocks larger than three (3) inches will not be allowed within the NILO Type I Aggregate Base section.

**6.0 EFFECTIVE DATE AND APPROVALS:**

EFFECTIVE DATE: February 1, 2013

  
\_\_\_\_\_  
Thomas Hayes, P.E.  
City of Las Vegas  
*Inspections Manager*

1-24-13  
\_\_\_\_\_  
Date

  
\_\_\_\_\_  
Gary G. Johnson, S.E.T.  
City of Las Vegas  
*Materials Testing Supervisor*

1-24-13  
\_\_\_\_\_  
Date