

IPEC

Inland Pacific Engineering Company
Geotechnical Engineering and Consulting

April 19, 2016
Project No. 16-249

NAI Black
c/o Mr. Bryan Walker
107 South Howard
Suite 500
Spokane, WA 99201

Re: **Supplemental Geotechnical Evaluation
Painted Hills Golf Course Property
4403 South Dishman-Mica Road
Spokane Valley, WA**

Dear Mr. Walker:

As you authorized, we have completed the supplemental geotechnical evaluation for the Painted Hills Golf Course property at the above-referenced site in Spokane Valley, Washington. The purpose of the supplemental evaluation is to provide additional soil and groundwater data to address concerns of the City of Spokane Valley. This report summarizes the results of our field investigation, laboratory testing, engineering analyses, and our opinions and recommendations for stormwater management.

PROJECT DESCRIPTION

We understand that the proposed project may consist of a residential development. The site consists of 91 acres currently developed as a golf course. Stormwater runoff will be treated using drywells and/or gravel galleries for subsurface infiltration. These type of facilities will also be used to manage potential floodwaters, if needed. This supplemental evaluation is intended to provide additional subsurface data at the north end of the site to assist in identifying areas where subsurface infiltration of stormwater may be feasible due to the presence of suitable soils at depth.

AVAILABLE INFORMATION

We were provided a topographic survey for the project site by Whipple Consulting Engineers, Inc. (WCE). This topographic survey showed the existing roadways, existing structures, property lines, and existing ground surface elevation contours. This plan was prepared by WCE and was dated November 7, 2013. The site was used as a golf course prior to our evaluation. The site is relatively level with some elevated golf greens and excavated areas for water hazards. The site is primarily grass-covered with scattered trees along the fairways and pine trees in the undeveloped area to the northwest. The clubhouse building is present at the southwest corner.

In addition, we performed a preliminary geotechnical evaluation for the property in December 2013. The results of that evaluation, along with our opinions and recommendations, are summarized in our Preliminary Geotechnical Evaluation dated December 31, 2013.

We also performed a geotechnical evaluation for certification of the existing levee along Chester Creek in April 2014. The results of that evaluation are summarized in our Geotechnical Evaluation report dated February 12, 2015.

Lastly, we performed a geotechnical evaluation in July 2015 consisting of ten 50-foot borings in the south half of the property. The results of that evaluation are summarized in our Geotechnical Evaluation Phase 2 report dated July 23, 2015.

FIELD EVALUATION

Procedures

A geotechnical engineer from Inland Pacific Engineering Company (IPEC) observed the drilling of three penetration test borings at the site. The borings were drilled between March 17 and 19, 2016 using a truck-mounted drill operated by an independent firm working under subcontract to IPEC. A geotechnical engineer or engineering assistant from IPEC observed the borings and logged the surface and subsurface conditions. After we logged the borings, they were abandoned in accordance with state requirements. Ground surface elevations at the borings were provided by WCE.

The soils encountered in the borings were visually and manually classified in the field by our field personnel in accordance with ASTM D 2488, "Description and Identification of Soils (Visual-Manual Procedures)". The samples were returned to our facility for review of the classification by a geotechnical engineer and laboratory testing.

Soils Encountered

In general, the borings encountered 2 feet of topsoil at the surface. Below the topsoil, the borings generally encountered glacially-deposited silty to clayey sands and/or gravels overlying poorly graded sands to termination depths of the borings. The clayey sands and gravels were generally encountered in the upper 12 to 18 feet.

Penetration resistances in the sands and gravels ranged from 15 to 90 blows per foot (BPF) and averaged 37 BPF, indicating that these soils were medium dense to very dense, but were typically dense.

Geologic maps indicate the soils in this area consist primarily of alluvial and/or glacially deposited silts, clays, sands, and gravels. According to the Soil Survey of Spokane County, the site soils are classified by the Natural Resource Conservation Service (NRCS) as Hardesty ash silt loam, Narcisse silt loam, Endoaquolls and Fluvaquents, Phoebe ash sandy loam, and Urban land-Springdale disturbed complex. The native soils encountered in the borings were consistent with the NRCS data.

Groundwater was encountered in Boring B-2 at a depth of 71 feet. This depth corresponds to an elevation of 1934.6. Groundwater was not encountered in the remaining borings. The observed water levels further indicates that groundwater levels drop generally from south to north with higher levels near Chester Creek. Fluctuations in the groundwater level may occur due to rainfall, flooding, irrigation, spring thaw and other seasonal and annual factors not evident at the time the observations were made.

ANALYSIS, OPINIONS, AND RECOMMENDATIONS

Based on the data obtained from the recent and previous borings, previous test pits, field permeability tests, and laboratory tests performed, it is our opinion that subsurface infiltration of stormwater is feasible. The most promising layers are the glacial sands and gravels. These soils would be suitable for infiltration using standard drywells.

We will perform a mounding analysis for the drywells after the proposed full-scale drywell test is completed to assess down-gradient impacts

REMARKS

This report is for the exclusive use of the addressee and the copied parties to use in design of the proposed project and to prepare construction documents. In the absence of our written approval, we make no representations and assume no responsibility to other parties regarding this report. The data, analyses, and recommendations may not be appropriate for other structures or purposes. We recommend that parties contemplating other structures or purposes contact us.

Services performed by the geotechnical engineers for this project have been conducted in a manner consistent with that level of care ordinarily exercised by members of the profession currently practicing in this area under similar budget and time restraints. No warranty, expressed or implied, is intended or made.

GENERAL REMARKS

It has been a pleasure being of service to you for this project. If you have any questions or need additional information, please do not hesitate to call me at (509) 209-6262 at your convenience.

Sincerely,



Paul T. Nelson, P.E.
Principal Engineer

Attachments: Figure 1, Site Location Map
Figure 2, NRCS Map
Figure 3, Boring Location Map
Logs of Borings B-1 through B-3
Descriptive Terminology
Laboratory Test Results



4-19-16

FIGURE 1




| Site Location Map | | |
|--|---|----------------|
|  Inland Pacific Engineering Company Geotechnical Engineering and Consulting | Project No. 16-249 | April 19, 2016 |
| | Painted Hills Golf Course 4403 South Dishman-Mica Road Spokane County, WA | |

FIGURE 2




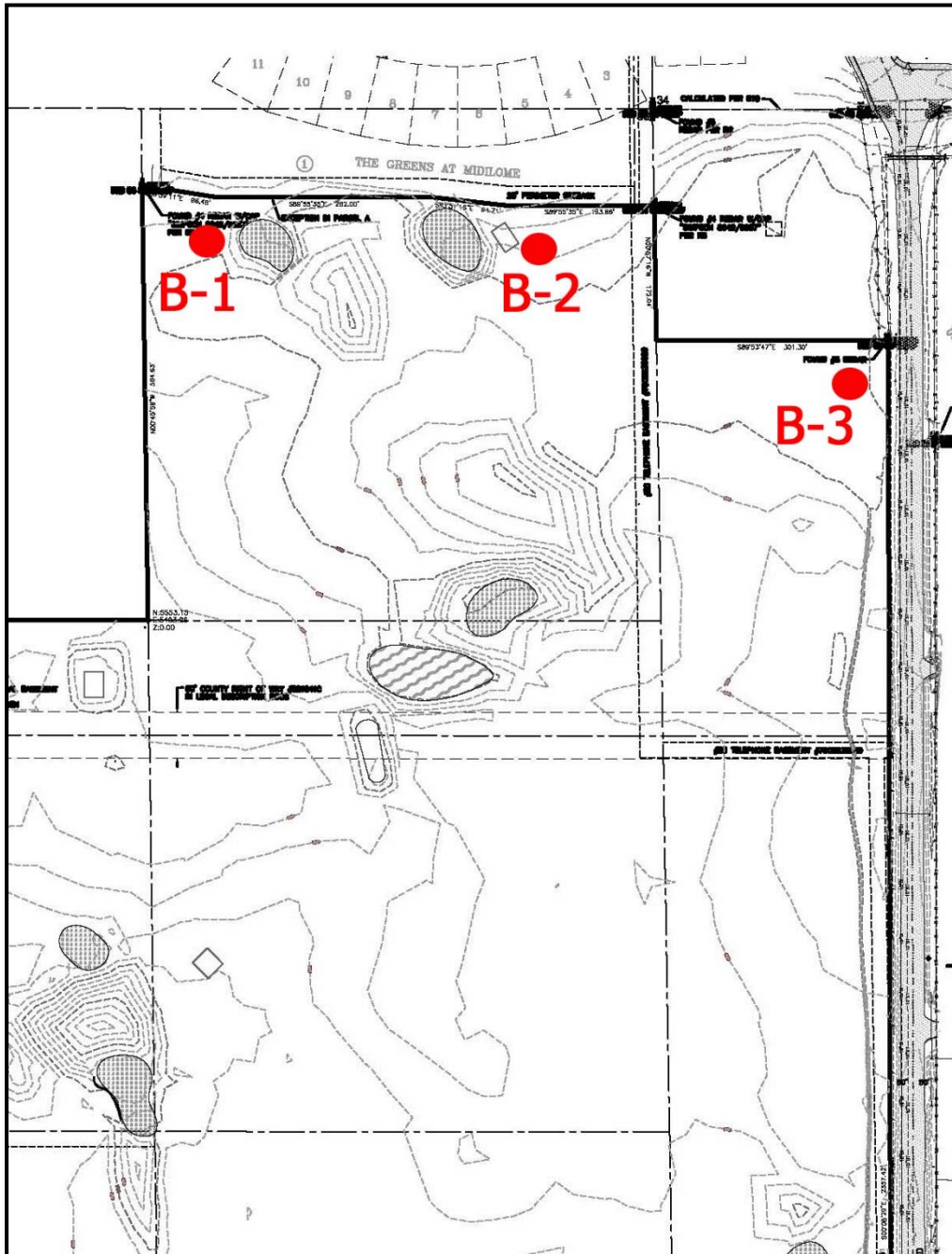

| | | |
|---|---|----------------|
| NRCS Map | | |
|  IPEC Inland Pacific Engineering Company Geotechnical Engineering and Consulting | Project No. 16-249 | April 19, 2016 |
| | Painted Hills Golf Course 4403 South Dishman-Mica Road Spokane County, WA | |

FIGURE 3



| Boring Location Map | | |
|---|---|----------------|
|  IPEC Inland Pacific Engineering Company Geotechnical Engineering and Consulting | Project No. 16-249 | April 19, 2016 |
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BORING NUMBER B-1

PAGE 1 OF 2

CLIENT NAI Black
PROJECT NUMBER 16-249
DATE STARTED 3/17/16 **COMPLETED** 3/17/16
DRILLING CONTRACTOR Johnson Exploration Drilling
DRILLING METHOD Hollow Stem Auger
LOGGED BY PRF **CHECKED BY** PTN
NOTES _____

PROJECT NAME Painted Hills Supplemental
PROJECT LOCATION 4403 South Dishman-Mica Road
GROUND ELEVATION 2005.9 ft **HOLE SIZE** 8 inches
GROUND WATER LEVELS:
AT TIME OF DRILLING --- Not encountered
AT END OF DRILLING --- Not encountered
AFTER DRILLING --- Not encountered

| DEPTH (ft) | SAMPLE TYPE NUMBER | TESTS | U.S.C.S. | GRAPHIC LOG | MATERIAL DESCRIPTION |
|---------------|-------------------------|------------|----------|-------------|---|
| 0 | | | | | |
| 0 - 2.0 | | | SM | | (SM) SILTY SAND, fine to medium grained, with roots, dark brown, moist. (Topsoil) 2003.9 |
| 2.0 - 17.0 | 5 SS 10 SS 15 SS | | SP-SM | | (SP-SM) POORLY GRADED SAND with SILT, medium to coarse grained, a trace of Gravel, brown, moist, medium dense. (Glacial Outwash) |
| 17.0 - 1988.9 | 20 SS 25 SS 30 SS | Fines = 7% | SP | | (SP) POORLY GRADED SAND with GRAVEL, medium to coarse grained, brown, moist, very dense to medium dense. (Glacial Outwash) 1988.9 |

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GENERAL BH / TP / WELL - GINT STD US LAB.GDT - 4/5/16 11:26 - J\IPEC PROJECTS\2016 PROJECTS\16-249 PAINTED HILLS SUPPLEMENTAL\GINT\16-249 PAINTED HILLS SUPPLEMENTAL.GPJ



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CLIENT NAI Black PROJECT NAME Painted Hills Supplemental
 PROJECT NUMBER 16-249 PROJECT LOCATION 4403 South Dishman-Mica Road

| DEPTH (ft) | SAMPLE TYPE NUMBER | TESTS | U.S.C.S. | GRAPHIC LOG | MATERIAL DESCRIPTION |
|------------|--------------------|-------|----------|-------------|--|
| 35 | SS | | SP | | (SP) POORLY GRADED SAND with GRAVEL, medium to coarse grained, brown, moist, very dense to medium dense. (Glacial Outwash) (continued) |
| 40 | SS | | | | |
| 45 | SS | | | | |
| 50 | SS | | | | |

50.5

1955.4

End of boring.

Groundwater not encountered with 49' of hollow-stem auger in the ground.

Groundwater not encountered immediately after withdrawal of the auger.

Bore hole then abandoned.

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BORING NUMBER B-2

PAGE 1 OF 3

CLIENT NAI Black
PROJECT NUMBER 16-249
DATE STARTED 3/17/16 **COMPLETED** 3/18/16
DRILLING CONTRACTOR Johnson Exploration Drilling
DRILLING METHOD Hollow Stem Auger
LOGGED BY PRF **CHECKED BY** PTN
NOTES _____

PROJECT NAME Painted Hills Supplemental
PROJECT LOCATION 4403 South Dishman-Mica Road
GROUND ELEVATION 2005.6 ft **HOLE SIZE** 8 inches
GROUND WATER LEVELS:
AT TIME OF DRILLING --- Not encountered
AT END OF DRILLING 71.00 ft / Elev 1934.60 ft
AFTER DRILLING 73.50 ft / Elev 1932.10 ft

GENERAL BH / TP / WELL - GINT STD US LAB.GDT - 4/5/16 11:26 - J\IPEC PROJECTS\16-249 PROJECTS\16-249 PAINTED HILLS SUPPLEMENTAL\GINT\16-249 PAINTED HILLS SUPPLEMENTAL.GPJ

| DEPTH (ft) | SAMPLE TYPE NUMBER | BLOW COUNTS (N VALUE) | TESTS | U.S.C.S. | GRAPHIC LOG | MATERIAL DESCRIPTION |
|------------|--------------------|-----------------------|------------|----------|-------------|--|
| 0 | | | | | | |
| 2.0 | | | | SM | | (SM) SILTY SAND, fine to medium grained, with roots, dark brown, moist. (Topsoil) 2003.6 |
| 5 | SS | 12-33 (45) | | SC | | (SC) CLAYEY SAND with GRAVEL, medium to coarse grained, brown, moist to wet, dense. (Glacial Outwash) 1999.1 |
| 10 | SS | 24-20 (44) | | GC | | (GC) CLAYEY GRAVEL with SAND, fine to coarse grained, brown, moist, dense. (Glacial Outwash) 1993.6 |
| 15 | SS | 24-29 (53) | | | | (SP) POORLY GRADED SAND with GRAVEL, medium to coarse grained, a trace of Cobbles, brown, moist, very dense to medium dense. (Glacial Outwash) |
| 20 | SS | 25-28 (53) | | SP | | |
| 25 | SS | 10-18 (28) | Fines = 8% | | | |
| 30 | SS | 11-13 (24) | | | | |

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BORING NUMBER B-2

PAGE 2 OF 3

CLIENT NAI Black PROJECT NAME Painted Hills Supplemental
 PROJECT NUMBER 16-249 PROJECT LOCATION 4403 South Dishman-Mica Road

GENERAL BH / TP / WELL - GINT STD US LAB.GDT - 4/5/16 11:26 - J1\IPEC PROJECTS\2016 PROJECTS\16-249 PAINTED HILLS SUPPLEMENTAL\GINT\16-249 PAINTED HILLS SUPPLEMENTAL.GPJ

| DEPTH (ft) | SAMPLE TYPE NUMBER | BLOW COUNTS (N VALUE) | TESTS | U.S.C.S. | GRAPHIC LOG | MATERIAL DESCRIPTION |
|------------|--------------------|-----------------------|-------|----------|-------------|---|
| 35 | SS | 28-37 (65) | | | | (SP) POORLY GRADED SAND with GRAVEL, medium to coarse grained, a trace of Cobbles, brown, moist, very dense to medium dense. (Glacial Outwash) (continued) |
| 40 | SS | 50/5" | | | | |
| 45 | SS | 50/5" | | | | |
| 50 | SS | 50/5" | | SP | | |
| 60 | SS | 8-17 (25) | | | | |
| 65 | | | | | | |


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BORING NUMBER B-2

CLIENT NAI Black PROJECT NAME Painted Hills Supplemental
 PROJECT NUMBER 16-249 PROJECT LOCATION 4403 South Dishman-Mica Road

| DEPTH (ft) | SAMPLE TYPE NUMBER | BLOW COUNTS (N VALUE) | TESTS | U.S.C.S. | GRAPHIC LOG | MATERIAL DESCRIPTION |
|------------|--------------------|-----------------------|-------|----------|---|--|
| 70 | SS | 21-11 (32) | | SP |  | (SP) POORLY GRADED SAND with GRAVEL, medium to coarse grained, a trace of Cobbles, brown, moist, very dense to medium dense. ▼ (Glacial Outwash) (continued) ▼ |
| 75 | | | | | | 75.0 1930.6 |

End of boring.

Groundwater encountered at 71' with 75' of hollow-stem auger in the ground.

Goundwater encountered at 73.5' 10 minutes later.

Groundwater not encountered to cave-in depth of 15' immediately after withdrawal of the auger.

Bore hole then abandoned.

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BORING NUMBER B-3

| | |
|--|---|
| CLIENT <u>NAI Black</u> | PROJECT NAME <u>Painted Hills Supplemental</u> |
| PROJECT NUMBER <u>16-249</u> | PROJECT LOCATION <u>4403 South Dishman-Mica Road</u> |
| DATE STARTED <u>3/18/16</u> COMPLETED <u>3/19/16</u> | GROUND ELEVATION <u>2004.5 ft</u> HOLE SIZE <u>8 inches</u> |
| DRILLING CONTRACTOR <u>Johnson Exploration Drilling</u> | GROUND WATER LEVELS: |
| DRILLING METHOD <u>Hollow Stem Auger</u> | AT TIME OF DRILLING <u>--- Not encountered</u> |
| LOGGED BY <u>PRF</u> CHECKED BY <u>PTN</u> | AT END OF DRILLING <u>--- Not encountered</u> |
| NOTES _____ | AFTER DRILLING <u>--- Not encountered</u> |

GENERAL BH / TP / WELL - GINT STD US LAB.GDT - 4/5/16 11:26 - J\IPEC PROJECTS\2016 PROJECTS\16-249 PAINTED HILLS SUPPLEMENTAL\GINT\16-249 PAINTED HILLS SUPPLEMENTAL.GPJ

| DEPTH (ft) | SAMPLE TYPE NUMBER | TESTS | U.S.C.S. | GRAPHIC LOG | MATERIAL DESCRIPTION |
|-------------|--------------------|-------|----------|-------------|---|
| 0 | | | | | |
| 0 - 2.0 | | | ML | | (ML) SANDY SILT, with roots, dark brown, moist. (Topsoil) 2002.5 |
| 2.0 - 8.0 | | | GC | | (GC) CLAYEY GRAVEL with SAND, fine to coarse grained, brown, moist, dense. (Glacial Outwash) 1996.5 |
| 8.0 - 12.0 | 5 | SS | SC | | (SC) CLAYEY SAND with GRAVEL, medium to coarse grained, brown, moist to wet, dense. (Glacial Outwash) 1992.5 |
| 12.0 - 18.0 | 10 | SS | GC | | (GC) SILTY CLAYEY GRAVEL with SAND, fine to coarse grained, brown, moist, medium dense. (Glacial Outwash) 1986.5 |
| 18.0 - 20.0 | 15 | SS | | | |
| 20.0 - 25.0 | 20 | SS | SP | | (SP) POORLY GRADED SAND with GRAVEL, medium to coarse grained, a trace of Cobbles, brown, moist, very dense to medium dense. (Glacial Outwash) 1986.5 |
| 25.0 - 30.0 | 25 | SS | | | |
| 30.0 - 33.0 | 30 | SS | | | Fines = 6% |

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 PROJECT NUMBER 16-249 PROJECT LOCATION 4403 South Dishman-Mica Road

| DEPTH (ft) | SAMPLE TYPE NUMBER | TESTS | U.S.C.S. | GRAPHIC LOG | MATERIAL DESCRIPTION |
|------------|--------------------|-------|----------|-------------|--|
| 35 | SS | | SP | | (SP) POORLY GRADED SAND with GRAVEL, medium to coarse grained, a trace of Cobbles, brown, moist, very dense to medium dense. (Glacial Outwash) (continued) |
| 40 | SS | | | | |
| 45 | SS | | | | |
| 50 | SS | | | | |

50.5

1954.0

End of boring.

Groundwater not encountered with 49' of hollow-stem auger in the ground.

Groundwater not encountered immediately after withdrawal of the auger.

Bore hole then abandoned.

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| RELATIVE DENSITY OR CONSISTENCY VERSUS SPT N-VALVE | | | |
|--|-------------|--------------------|-------------|
| COARSE-GRAINED SOILS | | FINE-GRAINED SOILS | |
| DENSITY | N(BLOWS/FT) | CONSISTENCY | N(BLOWS/FT) |
| Very Loose | 0 - 4 | Very Soft | 0 - 1 |
| Loose | 4 - 10 | Soft | 2 - 3 |
| Medium-Dense | 11 - 30 | Rather Soft | 4 - 5 |
| | | Medium | 6 - 8 |
| Dense | 31 - 50 | Rather Stiff | 9 - 12 |
| | | Stiff | 13 - 16 |
| Very Dense | > 50 | Very Stiff | 17 - 30 |
| | | Hard | > 30 |

| USCS SOIL CLASSIFICATION | | | | |
|---|---|--|--------------------|--|
| MAJOR DIVISIONS | | | GROUP DESCRIPTIONS | |
| Coarse-Grained Soils <50% passes #200 sieve | Gravel and Gravelly Soils <50% coarse fraction passes #4 sieve | Gravel <small>(with little or no fines)</small> | GW | Well Graded Gravel |
| | | <small>(with >12% fines)</small> | GP | Poorly Graded Gravel |
| | | Gravel <small>(with >12% fines)</small> | GM | Silty Gravel |
| | | <small>(with >12% fines)</small> | GC | Clayey Gravel |
| | Sandy and Sandy Soils >50% coarse fraction passes #4 sieve | Sand <small>(with little or no fines)</small> | SW | Well Graded Sand |
| | | <small>(with >12% fines)</small> | SP | Poorly Graded Sand |
| Sand <small>(with >12% fines)</small> | | SM | Silty Sand | |
| | | SC | Clayey Sand | |
| Fine-Grained Soils >50% passes #200 sieve | Silt and Clay Liquid Limit < 50 | | ML | Silt |
| | | | CL | Lean Clay |
| | | | OL | Organic Silt and Clay (low plasticity) |
| | Salt and Clay Liquid Limit > 50 | | MH | Inorganic Silt |
| | | | CH | Fat Clay |
| | | | OH | Organic Clay and Silt (med to high plasticity) |
| Highly Organic Soils | | | PT | Peat |
| | | | Muck | |

| MODIFIERS | |
|-------------|----------|
| DESCRIPTION | RANGE |
| Occasional | <5% |
| Trace | 5% - 12% |
| With | >12% |

| MOISTURE CONTENT | |
|------------------|--|
| DESCRIPTION | FIELD OBSERVATION |
| Dry | Absence of moisture, dusty, dry to the touch |
| Moist | Dry of optimum moisture content |
| Wet | Wet of optimum moisture content |

| MAJOR DIVISIONS WITH GRAIN SIZE | | | | | | | |
|---------------------------------|---------|--------|------|--------|--------|--------|---------------|
| SIEVE SIZE | | | | | | | |
| 12" | 3" | 3/4" | 4 | 10 | 40 | 200 | |
| GRAIN SIZE (INCHES) | | | | | | | |
| 12 | 3 | 0.75 | 0.19 | 0.079 | 0.0171 | 0.0029 | |
| Boulders | Cobbles | Gravel | | Sand | | | Silt and Clay |
| | | Coarse | Fine | Coarse | Medium | Fine | |



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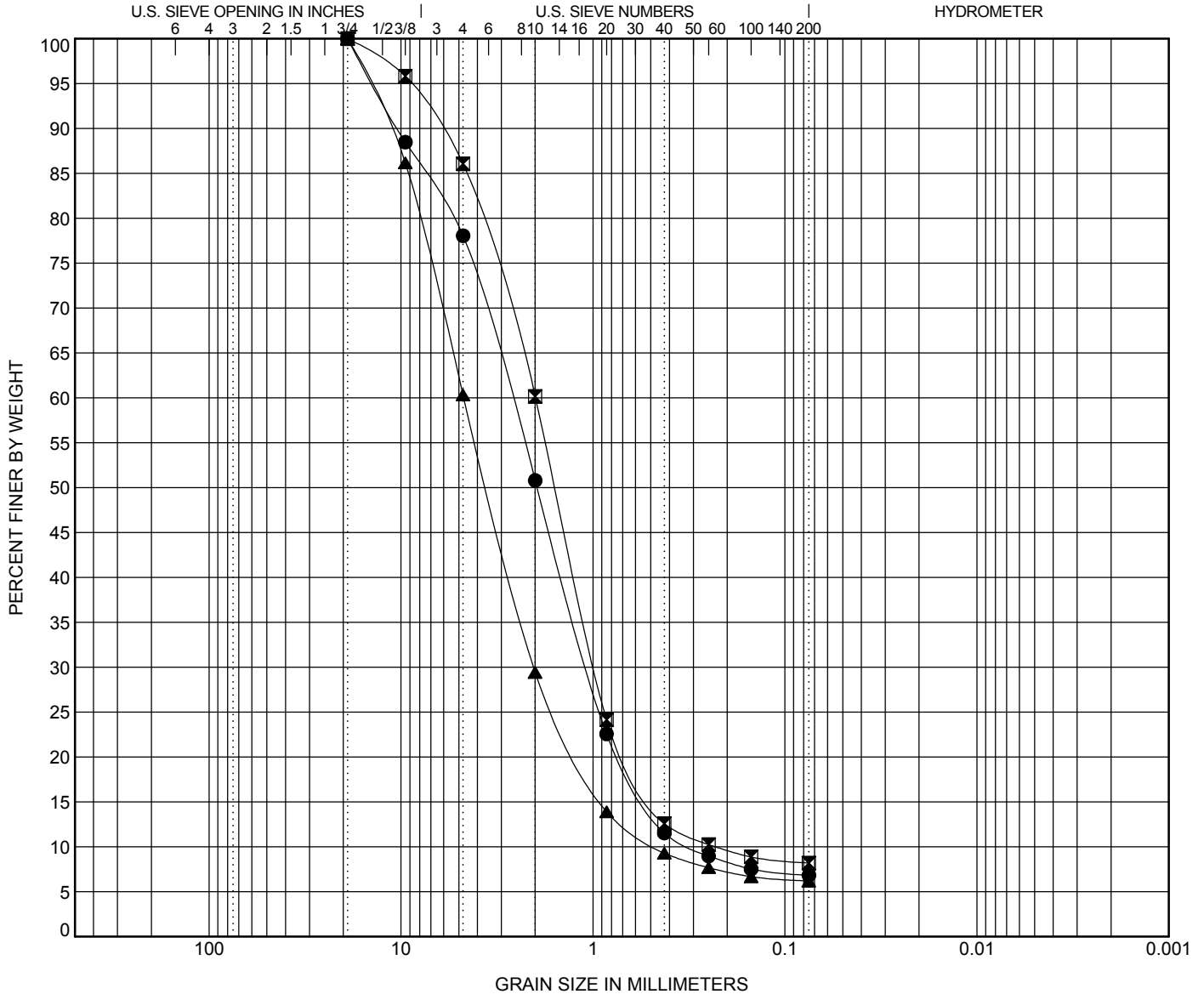
GRAIN SIZE DISTRIBUTION

CLIENT NAI Black

PROJECT NAME Painted Hills Supplemental

PROJECT NUMBER 16-249

PROJECT LOCATION 4403 South Dishman-Mica Road



| COBBLES | GRAVEL | | SAND | | | SILT OR CLAY |
|---------|--------|------|--------|--------|------|--------------|
| | coarse | fine | coarse | medium | fine | |

| BOREHOLE | DEPTH | Classification | LL | PL | PI | Cc | Cu |
|----------|-------|------------------------------------|----|----|----|------|------|
| ● B-1 | 30.0 | SP-SM Poorly Graded Sand with Silt | | | | 1.37 | 8.65 |
| ■ B-2 | 25.0 | SP-SM Poorly Graded Sand with Silt | | | | 2.10 | 8.72 |
| ▲ B-3 | 30.0 | SP-SM Poorly Graded Sand with Silt | | | | 1.85 | 9.95 |

| BOREHOLE | DEPTH | D100 | D60 | D30 | D10 | %Gravel | %Sand | %Silt | %Clay |
|----------|-------|------|-------|-------|-------|---------|-------|-------|-------|
| ● B-1 | 30.0 | 19 | 2.679 | 1.065 | 0.31 | 21.9 | 71.2 | 6.8 | |
| ■ B-2 | 25.0 | 19 | 1.992 | 0.977 | 0.228 | 13.9 | 77.9 | 8.2 | |
| ▲ B-3 | 30.0 | 19 | 4.708 | 2.032 | 0.473 | 39.7 | 54.1 | 6.2 | |

GRAIN SIZE - GINT STD US LAB.GDT - 4/19/16 15:07 - J:\IPEC PROJECTS\2016 PROJECTS\16-249 PAINTED HILLS SUPPLEMENTAL\GINT\16-249 PAINTED HILLS SUPPLEMENTAL.GPJ