# **Mineral Valuation**

#### OPINION OF THE VALUE OF THE ECONOMICALLY RECOVERABLE GLACIAL SAND AND GRAVEL AGGREGATES CONTAINED WITHIN THE PENNY CREEK PIT, LOCATED IN SECTIION 23, TOWNSHIP 27 NORTH, RANGE 2 WEST, W.M., JEFFERSON COUNTY, WASHINGTON

Prepared for:

#### GREGORY L. GOODMAN, MAI VALBRIDGE PROPERTY ADVISORS 506 2<sup>ND</sup> AVENUE, SUITE 1001 SEATTLE, WA 98104

FEBRUARY 28, 2017

### McLUCAS & ASSOCIATES, INC. CONSULTING GEOLOGIST INDUSTRIAL MINERALS AND AGGREGATE SPECIALISTS

#### "IT'S ALL ABOUT THE ROCK - PERMITS - MARKET AREA"

#### P.O. Box 5352, LACEY, WA 98509 \* (360) 456-8248 \* FAX (360) 438-1881 \* mclucastaylor@gwestoffice.net

Gregory L. Goodman, MAI Managing Director Valbridge Property Advisors 506 2<sup>nd</sup> Avenue, Suite 1001 Seattle, WA 98104 February 28, 2017

RE: Updated Mineral Valuation of sand and gravel resources contained within the Jefferson County Penny Creek Pit

Dear Ms. Goodman:

The following report represents our opinion of value for the sand and gravel reserves, contained within the Penny Creek Pit located in Jefferson County, Washington. Upon completion of your review of this document, please call so that we can discuss its contents, scope, and results.

Thank you for the opportunity to work on this most interesting project.

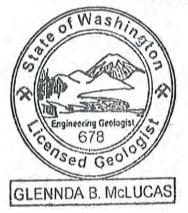
Respectfully,

De Mhucas

Glennda McLucas President, RPG

Respectfully,

Stephen Tayfor V.P. Mineral Valuations



#### **SUMMARY**

In July, 2014, McLucas and Associates, Inc. (McLucas) was retained by Gregory Goodman, MAI, and Managing Director of Valbridge Property Advisors for developing an opinion of the present value of economically-and-legally-recoverable sand and gravel resource contained within the Penny Creek Pit, owned by Jefferson County. In February, 2017 McLucas was retained again to provide an update to the 2014 Mineral Valuation of the Penny Creek Pit. Jefferson County is currently entertaining the potential of selling the 29.4-acre mine site. This Updated Mineral Valuation is being provided for this purpose.

The mine site is located near Quilcene, Washington, within Section 23, Township 27 North, Range 2 West, W.M. McLucas was also charged with the task of determining the quality and quantity of aggregates which the property contains. In 2014, McLucas obtained aggregate samples, and had Materials Testing & Consulting, Inc. provide the necessary testing of rock quality. These results are included in the Material Quality Section of this report.

The mining property consists of 29.4-acres, which is approved, and permitted to mine construction aggregates in Jefferson County, Washington, and approved for reclamation by the Washington State Department of Natural Resources (WSDNR). The mining permits are very old, but do not require a new Jefferson County Mining Permit for borrow run and screening of aggregates. Additional processing such as crushing or washing of aggregates would require a new Jefferson County Conditional Use Permit. These Jefferson County Permits can be obtained from county as noted by enclosed correspondence located in the Permit Section of this report. The reclamation permit with Washington State Department of Natural Resources requires an updated reclamation permit which is straight forward requiring a SM-8A, Narrative, and New Map Set.

The property has been mined "on and off" since 1972 by property owner James D. Dutton, and Carl A. Willrich. The site had originally been issued a "Determination of Non-Significance" by Jefferson County, which gave the property owner the right to mine aggregates from the property site. An SM-6 was signed in November 1972 by Jefferson County. In October 1989 Jefferson County purchased the property from Dutton/Willrich, and was issued an Operating permit from WSDNR. These documents can be reviewed in the Permit Section of this report.

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It has been estimated that the permitted portion (29.4 acres) of the mine site has approximately, <u>1.9 million tons</u> of legally-extractable sand and gravel reserves available for mining. Through the process of the Current Market Analysis, McLucas has determined that the Projected Average Weighted Price Per-Ton is <u>\$10.89</u>. McLucas Market Analysis has determined that a 10% of the Average Price Per Ton generates a starting royalty of <u>\$1.09 per ton</u>. McLucas has used the 5-year average, <u>1.76%</u> of the Consumer Price Index (CPI) to escalate the production, and a 5-year average <u>3.87%</u> of the Producers Price Index (PPI) to escalate the royalty over a (20) year mine life. A <u>9.41 percent discount rate</u> was utilized consisting of 3.41% cost of money, 4% rate fluctuation (1% for every 5 DCF years) of the cost of money, and a 2% risk factor.

In conclusion, McLucas has generated a 20-year valuation spreadsheet (Table 1) (which concludes that the 1.9-million-ton aggregate reserve has a Net Present Value (NPV) of <u>\$393,233</u>.

The subject valuation does not include:

(1) Determination of the reversionary value of the 29.4 acre mine post-mining real estate in 30-years, nor the timber value, if any.

#### **INTRODUCTION**

Stephen Taylor, Vice President Mineral Valuations, and Glennda McLucas, Registered Washington State Professional Geologist (RPG), officers of McLucas & Associates, Inc. (McLucas), were retained by Valbridge Property Advisers, and Jefferson County. The purpose of McLucas' involvement is to provide an updated mineral valuation for the remaining aggregate reserves contained within the Penny Creek Pit.

McLucas has been providing Mineral Valuations for over 35 years. Glennda and Steve are vetted vendors with the Internal Revenue Service for mineral valuations in tax donation mine claims. McLucas has provided over 100 mineral valuation the past years to mine operators, banks, cities, counties, northwest state agencies, and federal agencies. McLucas is a licensed geologist in Oregon, and Washington, and has limited agreements in Idaho, Montana, and Canada. McLucas also provide mineral valuations for the Washington State Department of Transportation in condemnation cases. McLucas valuations have been used by mine owners to settle ownership disputes, financing, and sale of mine operations. Please review enclosed McLucas brochure for additional information.

The purpose of this report is to present an opinion of the fair-market value of the sand and gravel resources contained within the Penny Creek Pit site, which is the subject of this updated sand and gravel mineral valuation. Fair-market value is defined as the most probable price that a willing buyer would be justified in paying for recoverable sand and gravel resources contained within the subject property, owned in fee simple by Jefferson County, Washington.

McLucas traveled to the site in August, 2014 for collecting sand and gravel samples to be tested by Material Testing Corporation, and to conduct a review of the site with Scott Stewart, representative of Jefferson County. McLucas has reviewed documents that have been submitted by Jefferson County, and feel comfortable with this report. McLucas did not travel to the site this year, but reviewed the property via Google Earth. McLucas talked with Jefferson County to see if there had been any activity or changes to the site. McLucas found that there had not been any changes to the site, permits, or mining.

The following contents of this report outline McLucas' due-diligence in reviewing all aspects of the mine operation, permits, market area, and all legal pertinent documents.

#### SITE DESCRIPTION

#### **CURRENT CONDITION**

The Penny Creek Mine site has been mined for the past 40 plus years. Early ownership of Dutton/Willrich mined an estimated 10% of the mine site from 1972 to 1989. Jefferson County purchased the site in 1989, and have not mined the site to this current date. It appears that the Fir has been harvested in the past, and 20% of the site has been cleared of trees. Bruch has overgrown the open areas; a variety of tress encompass the remaining 80% of the site.

#### **PROJECT LOCATION**

As illustrated by the enclosed aerial photos, the Penny Creek site is located within Jefferson County, Washington, approximately 1 mile southeast of the City of Quilcene via US 101, which forms the subject site's southern boundary. The property's eastern boundary is Pete Beck Road. The entrance to the site is the intersection of US 101 and Penny Creek Road, which is at the corner of the western boundary.

#### LEGAL DESCRIPTION

The approximate 30-acre Penny Creek Pit site occupies a portion of Section 23, Township 27 North, Range 2 West, W.M., Jefferson County, Washington.

#### **OWNERSHIP**

The ownership of the property is Jefferson County, Washington. The Jefferson County Assessor & Treasurer indicates the property is free and clear of any liens. These documents can be reviewed in the Title Section of this report.

#### ACCESS CONDITIONS

Traveling northeast via US 101 on the Olympic Peninsula, the intersection of US 101 and Penny Creek Road, somewhat hard to see traveling north, is where the entrance gate is located, close to this intersection. If you travel just a short distance you will see Pete Beck Road, the eastern boundary of the property, you have traveled a little too far. The site is approximately 1 mile southwest of Quilcene, Washington.

#### SITE DESCRIPTION

The 30-acre site is an irregular rectangular in nature, except for the southern boundary, which is formed by US 101). The site description is as follows;

a) A 10% mined floor with brush covering this area.

b) There is approximately 20% of the site that has had the trees cleared, and now is covered with brush.

c) The site has been logged for the Fir, and approximately 80% of the site is covered with other species of trees.

d) The site rises in elevation from the previous east mining floor of 128' msl, to the treed area of the west boundary at approximately 190' msl.

e) At the 165' msl area a flat terrace area is present and contains the road that leads down to the pit floor.

#### **GEOLOGY - TOPOGRAPHY - WATER**

#### **REGIONAL GEOLOGY**

The Olympic Mountains, an extension of the Coastal Range from Oregon, is the core of the Olympic Peninsula. The area is known for spectacular mountains, lush rain forests, and pristine coastlines. The peninsula is bordered by the Pacific Ocean, to the west, the Strait of Juan de Fuca to the north, and Hood Canal to the east. The southern flanks of the Olympic Mountains adjoin the lowlands of Grays Harbor basin. The Olympic Mountains catch moisture-laden Pacific storms, causing an average of 140 inches of precipitation in one year. The areas' highest point is Mount Olympus at 7,965 feet above sea level.

#### **GEOLOGY SEDIMENT PROFILE**

The Coast range basement consists of Eocene Crescent Formation basalts, which were erupted close to North American in a marine setting. The formation consists mostly of thick submarine basalt flows such as pillow lavas. Locally, sub aerial flows are preserved where islands formed during the Eocene. The Crescent Formation was deposited upon continentally derived marine sediment sand is locally inter bedded with Eocene limy red sediments that now are limestone. During the middle Eocene, about 50 million years ago, the Crescent Formation was deformed due to accretion to North American. A thick sedimentary accretionary prism formed offshore at about this time. Sediments from the prism were thrust or under-plated beneath the Crescent Formation Uplift of the Olympics during middle to late Miocene time was possibly caused by arching of the sub ducting oceanic slab sedimentary rocks are now exposed in the core of the Olympics.

#### SITE SAND AND GRAVEL GEOLOGY

The north and east flanks of the Olympics were subject to erosion by continental ice sheets during the Pleistocene. Alpine glaciers also sculpted the Olympic Mountains. Thick deposits of sand and gravel fill valley bottoms and cover the coastal plains. Raised wave-cut platforms along the west coast indicate periods of uplift. Many of down warped Hoh mélange rocks in a matrix of clay formed diapers or piercement structures that were active through the Pliocene and Pleistocene. Offshore, they deform Holocene sediments

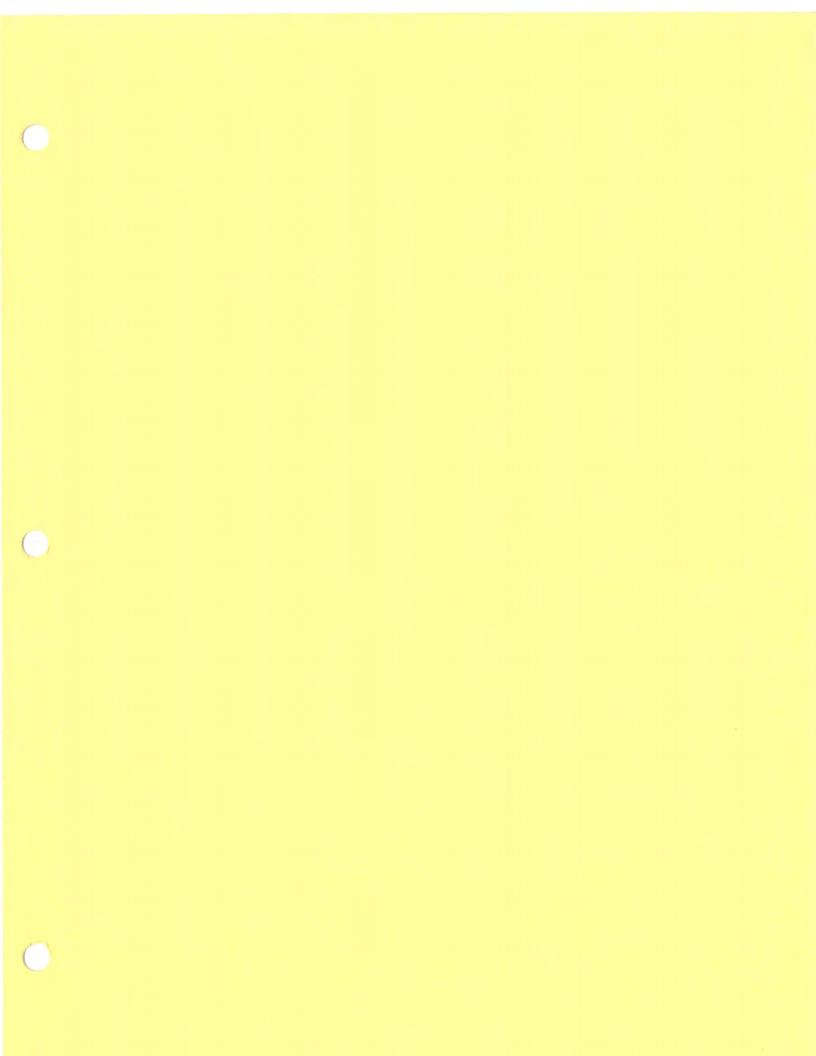
#### SITE TOPOGRAPHY AND DRAINAGE

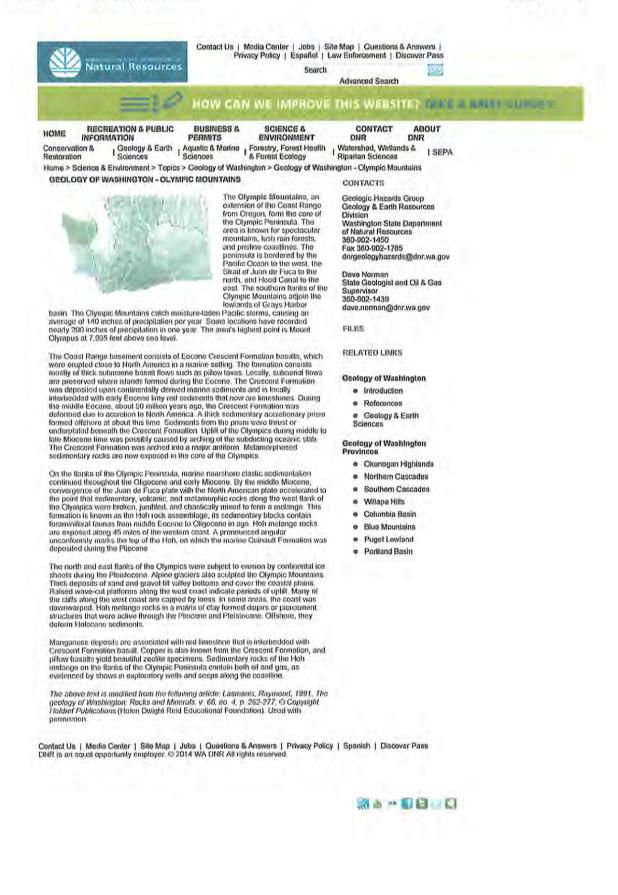
The site represents a bedrock-controlled sand and gravel terrace that slopes eastward from the western boundary with an elevation more than 190 feet MSL at the intersection of Penny Creek Road and US 101 to the east boundary of Pete Beck Road at an elevation of 155 feet MSL. The previous mining area (10%) is at an elevation of 128' MSL. This creates an upward sloping terrace that extends west up to 62 feet in height.

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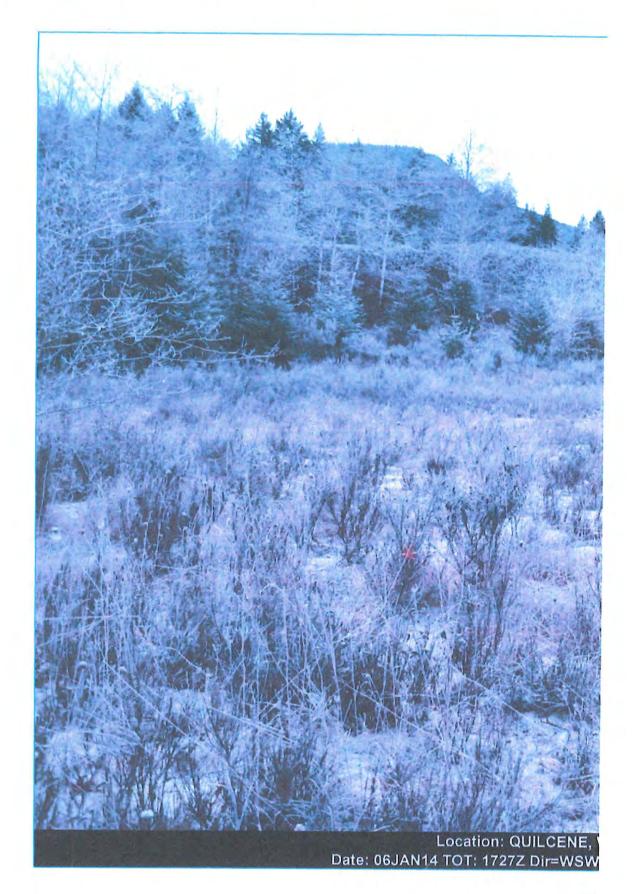
#### **GROUND WATER**

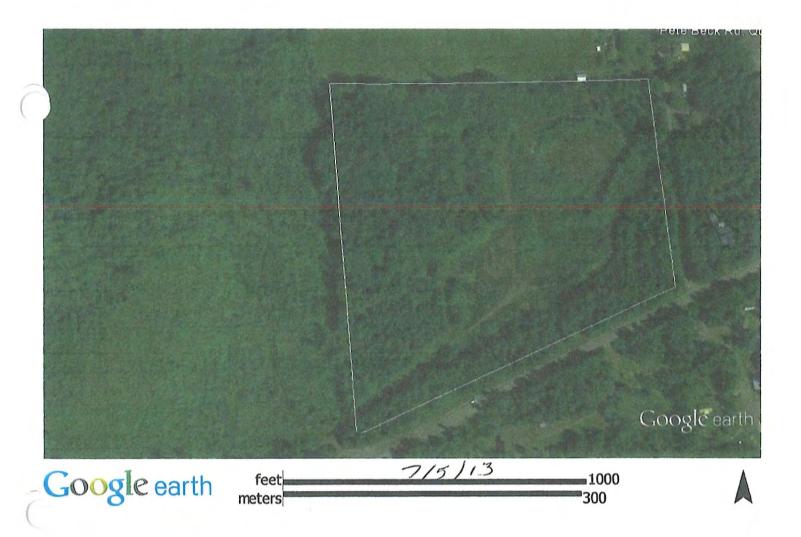
The site did not have a water well in place. McLucas did not attempt to obtain local well information, since the current Jefferson County Permit does not allow for the washing of aggregates on site.

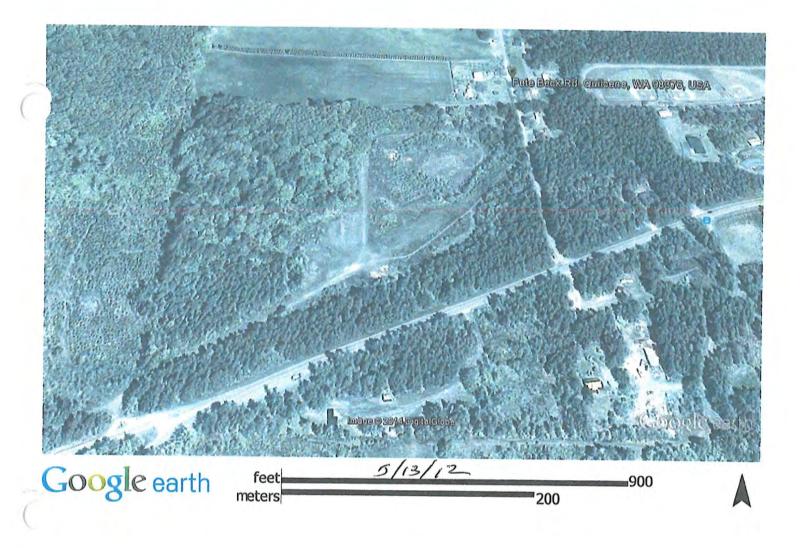


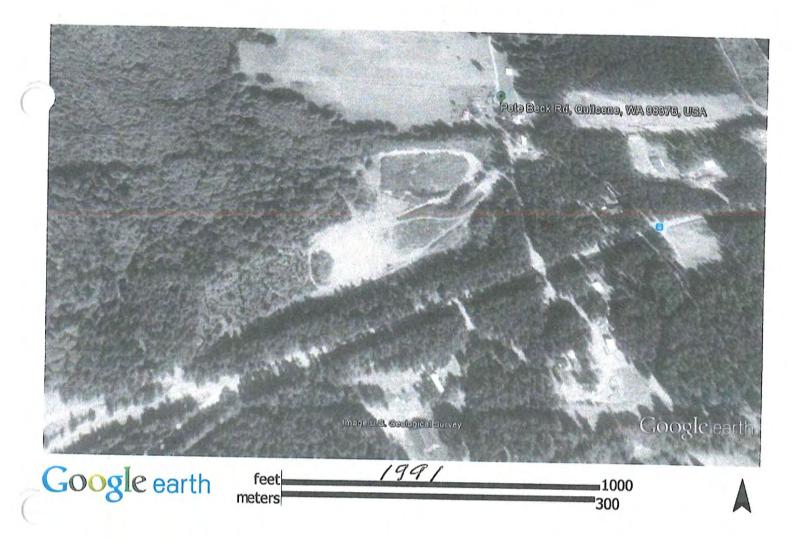


http://www.dnr.wa.gov/researchscience/topics/geologyofwashington/pages/olympic.aspx 8/21/2014









#### MATERIAL QUALITY

#### Particle Size Ranges

Results of grading analyses generated for all pit hole samples were collected by McLucas, and submitted to Material Testing & Consulting laboratories for test work. The testing results are included within this section of this report. The test results provide a summary and average of grading of the coarse aggregate fraction. The test results provide an average grading for the deposit. Overall, it appears the deposit contains the full range of particle sizes, and that they occur in relatively equal percentages, an important factor when providing aggregate for concrete structures where strength is an important consideration.

Plus 3-6 inch cobbles represent from 3 to 5 percent of the total materials observed in the field; however, grading results show 100 percent passing the 4-inch screen. This is undoubtedly due to loss of the plus 3" material during sample collection at the site. An average of 14 percent of material is retained by the 1.5-inch screen coarse gravel from 1.5 inches to  $\frac{3}{100}$  inch in diameter.

Fine gravel from 3/4 inch to the number 4 screen, which represents an average of 36 percent of the total, is the largest coarse aggregate fraction. The percentage of ¼ inch material is not excessive (an average of 7 percent of the total). This size fraction represents the material commonly discarded during screening of coarse aggregate, it is commonly used as masonry grout, such that it is not always wasted.

#### <u>Color</u>

Aggregate samples from upper terrace (midpoint-165' msl) of the site, taken from six pit holes, is medium orange to brown in color. This indicates that there is a presence of iron/manganese. It is McLucas and MTC opinion that this area of the site, the surface rock (1'to4') is weathered rock, thus resulting in a degradation of 3 to 5 percent. Samples taken for the mining floor (128' msl) the rock was grayish to black, and the degradation was acceptable at 15%.

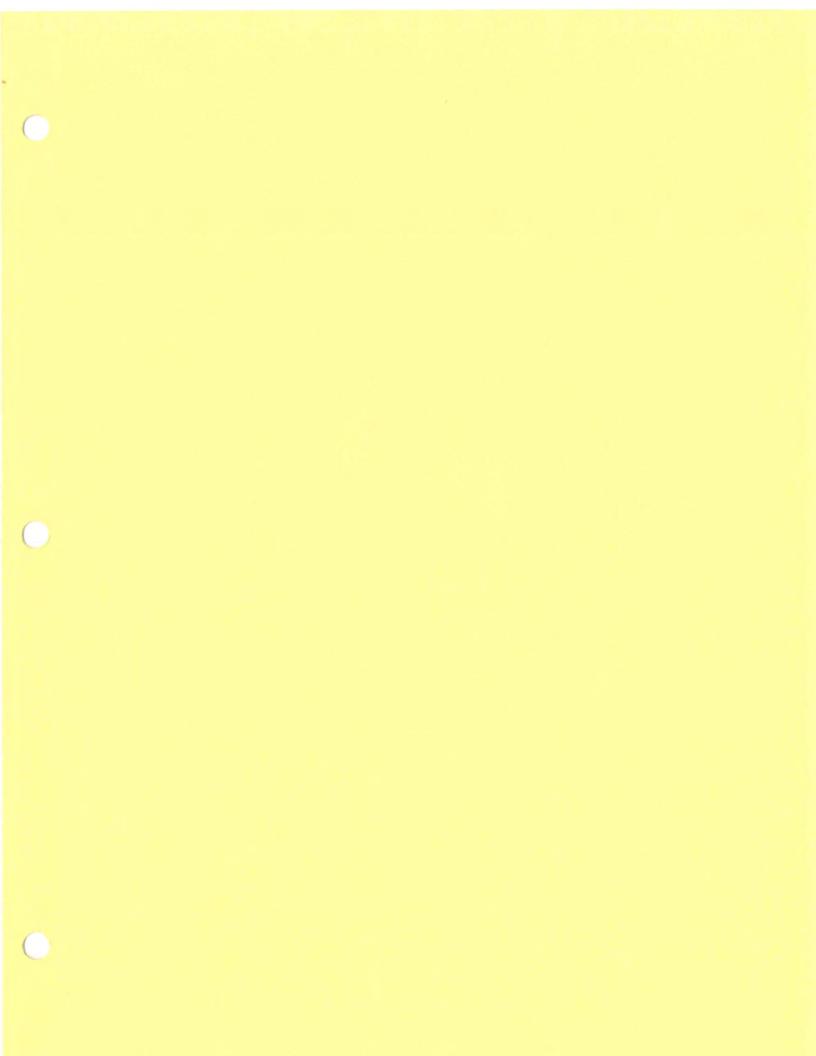
#### Weathering/Quality

As McLucas, has pointed out, sample collection at the 165' level indicate that the rock at the surface of the site is somewhat weathered, and iron stained and suggest that deeper holes be dug to check for the degradation at this level. The LA Abrasion tests for both levels were excellent, indicating the rock is competent.

McLucas noted from the test results that in all the sampling, the site is short 5 to 10 percent in the number 4 mesh. To compensate, the site can add imported #4 mesh material to the site and mix with the borrow pit run to accomplish the borrow pit specifications for 50% #4 borrow. The site can produce borrow with less than 50% #4, and select borrow.

8

In conclusion, the site has a deposit of well-graded sand and gravel with averages of 60% gravel, 36% sand, and 4% silt and clay. The LA Abrasion is 14% to 16% with a maximum of 35% allowance. The degradation for the upper terrace is 3 to 5 percent with a minimum of 15%. (Further and deeper samples need to be tested). The lower mine floor degradation of three pit holes is 70.5 % with a minimum of 15. The sieve analysis indicates the sand and gravel sizes are well distributed.

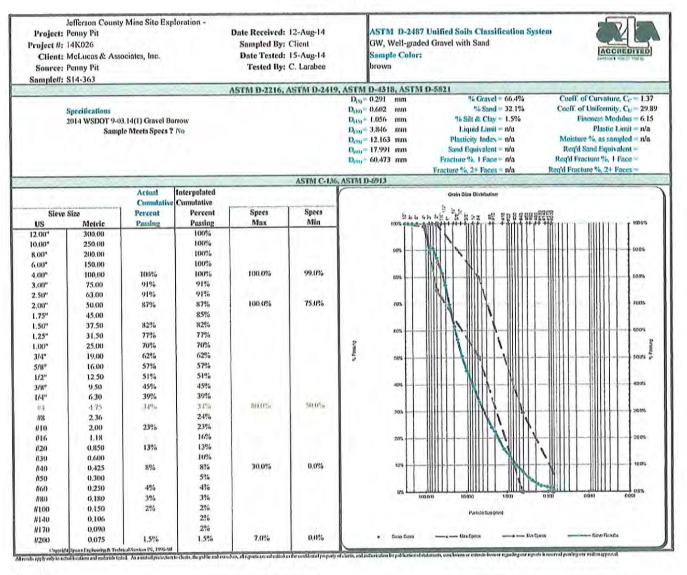


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#### **Sieve Report**



Comments:

Reviewed by:

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#### **Resistance to Degradation of Small-Size Coarse Aggregate** by Abrasion and Impact in the Los Angeles Machine ASTM C-131

Project: Jefferson County Mine Site - Penny Pit	Client: McLucas & Associates, Inc.
Project #: 14K026	Sampled by: Client
Lab #: S14-362	Date Received: August 12, 2014
Location/Source: Penny Pit	Tested by: C. Larabee
Description: brown gravel w/ sand	Date Tested: August 16, 2014
Equipment Used: SW068, LA Abrasion Machine	

Grading Designation	А	
# of Revolutions	500	
Mass of Sample Before Test	5009.6 g	
Mass of Sample After Test	4321.9 g	
Percentage of Loss	13.7 %	
Specification	Max. 35 %	Pass 🛛 Fail 🗌

Remarks:

Reviewed by:

All results apply only to actual locations and materials tested. As a mutual protection to clients, the public and ourselves, all reports are submitted as the confidential property of clients, and authorization for publication of statements, conclusions or extracts from or regarding our reports is reserved pending our written approval. 2008-2014 Materials Texting & Consulting, Inc. All rights reserved.

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### Aggregate Durability Index (WSDOT 113)

Project: Jefferson County Mine Site - Penny Pit

Project #: 14K026

Lab #: S14-363

Location/Source: Penny Pit

Description: brown gravel w/ sand

Equipment Used: SW063, SW016, SW022

Client: McLucas & Associates, Inc. Sampled By: Client Date Received: August 12, 2014 Tested By: C. Larabee Date Tested: August 22, 2014

Data

	<u>Run #1</u>	Run	#2
Test Sample Height (H):	2.0	1.	9
Durability Index Value (D):	70	7	1
Average Durability Index:	70.5	-	
Required Durability Index:	Min 15	Pass 🛛	Fail 🗖

D = (15-H) / (15+1.75H) \* 100

Reviewed by:

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Rev. 3/2014

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Client:	McLucas & Associates, Inc.	Date:	July 21, 2014
Address:	Us 101 & Pete Back Rd	Project:	Jefferson County Mine Site Exploration
	Quilcene	Project #:	14K026
Attn:	Stephen Taylor	Sample #:	K14-173

As requested MTC, Inc. has performed the following test(s) on the sample referenced above. The testing was performed in accordance with current applicable AASHTO or ASTM standards as indicated below. The results obtained in our laboratory were as follows below or on the attached pages:

	Test(s) Performed:	Test Results		Test(s) Performed:	Test Results
$\overline{\mathbf{v}}$	Sieve Analysis	FAIL		Sulfate Soundness	
	Proctor			Unit Weight	
	Sand Equivalent			WSDOT Degradation	
	Fracture Count		1	LA Abrasion	15.16%
	Moisture Content			1	
	Specific Gravity, Coarse		Π		
	Specific Gravity, Fine				
	Hydrometer Analysis				
	Atterberg Limits				
	Asphalt Extraction/Gradation	1			
	Rice Density		П		

If you have any questions concerning the test results, the procedures used, or if we can be of any further assistance please call on us at the number below.

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Respectfully Submitted, Samuel Hyatt WABO Supervising Laboratory Technician

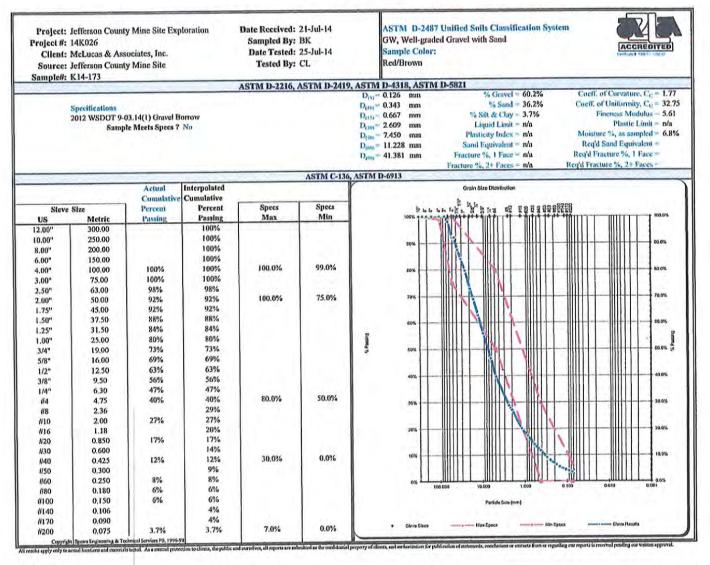
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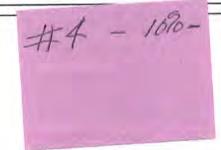
#### **Sieve Report**



Comments:

Reviewed by:

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Client:	McLucas & Associates, Inc.	Date:	July 21, 2014
Address:	US 101 & Pete Back RD	Project:	Jefferson County Mine Site Exploration
	Ouilcene	Project #:	14K026
Attn:	Stephen Taylor	Sample #:	K14-174
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As requested MTC, Inc. has performed the following test(s) on the sample referenced above. The testing was performed in accordance with current applicable AASHTO or ASTM standards as indicated below. The results obtained in our laboratory were as follows below or on the attached pages:

	Test(s) Performed:	Test Results		Test(s) Performed:	Test Results
2	Sieve Analysis	FAIL		Sulfate Soundness	100 and 100 and 100
Π	Proctor	1		Unit Weight	-C
	Sand Equivalent		2	WSDOT Degradation	4
	Fracture Count		1	LA Abrasion	16.10%
	Moisture Content	1			
	Specific Gravity, Coarse				
	Specific Gravity, Fine				
Π-	Hydrometer Analysis				
	Atterberg Limits				
	Asphalt Extraction/Gradation				
	Rice Density				

If you have any questions concerning the test results, the procedures used, or if we can be of any further assistance please call on us at the number below.

Sound D. Alson

Respectfully Submitted, Samuel Hyatt WABO Supervising Laboratory Technician

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### **Sieve Report**

Project #: Client:	McLucas & As Jefferson Coun	sociates, Inc.	ploration	Date Received Sampled By Date Tested Tested By	: BK : 25-Jul-14 : CL	ASTM D-2487 Unified Soils Classification System GW-GC, Well-graded Gravel with Silty Clay and Sand Sample Color: Red/Brown		
1.000		1		ASTM D-2216.	ASTM D-241	9, ASTM D-4318, ASTM	1 D-5821	
	Specifications 2012 WSDOT 9- Samj	03. 14(1) Gravel 1 Je Meets Specs 3				D <sub>151</sub> = 0.065 mm D <sub>1(10)</sub> = 0.256 mm D <sub>1(11)</sub> = 0.562 mm D <sub>1(10)</sub> = 2.492 mm D <sub>1(10)</sub> = 7.578 mm D <sub>1(10)</sub> = 11.391 mm D <sub>100</sub> = 37.029 mm	% Gravel = 60,6% % Sand = 33,6% % Sitt & Clay = 5,8% Liquid Limit = n/a Plasticity Index = n/a Sand Equivalent = n/a Fracture %, 1 Face = n/a Fracture %, 2+ Face = n/a	Coeff. of Curvature, C <sub>E</sub> = 2.13 Coeff. of Uniformity, C <sub>D</sub> = 44.4 Fineness Modulus - 5.50 Plastic Limit = n/a Moisture %, as sampled = 6.19 Req'd Sand Equivalent = Req'd Fracture %, 1 Face = Bodd Eracture %, 1 Face =
			Sec. Com		ASTM C-13	6, ASTM D-6913	Fracture 76, 27 Faces - tog	Reg'd Fracture %, 2+ Faces =
		Actual	Interpolated			r	Gmin Siza Distribution	
	Class.		Cumulative	-			State Constanting	
Steve	Metric	Percent Passing	Percent Passing	Spees	Specs	846 1		<b>與存留</b>
12.00"	300.00	Passing	100%	Max	Min	10016	110021+1+++++++++++++++++++++++++++++++	100.0%
10.00"	250.00		100%					
8.00"	200,00		100%			60%	BH MILL MILL	
6.00"	150.00		100%		1.111.11.1			some some
4.00"	100.00	100%	100%	100.0%	99.0%			
3.00"	75.00	100%	100%	1.00.070	22.474	eovi	╫╫┼╄╁──║╫╟┼┼┼	
2.50"	63.00	100%	100%					
2.00"	50.00	97%	97%	100.0%	75.0%	70%		
1.75"	45.00	97%	97%	10000				70.0%
1.50"	37.50	90%	90%		1.1.1			
1.25"	31.50	85%	85%			£019	╫╫╢┼┼╌┝┈╲╢╫┼┼╌┝┈╴╢╢┼┼┤╌┝╴	
1.00"	25.00	79%	79%			8		
3/4"	19.00	73%	73%			50%		
5/8"	16.00	69%	69%			\$ 50%		
1/2"	12.50	62%	62%					
3/8"	9.50	56%	5696		1	40%	111+1+-1	40.0%
1/4"	6.30	46%	46%	1.	1.1.1.1.1			
#4 #8	4.75	39%	39%	80.0%	50.0%	30%		
#10	2.36	0.00	29%			34%		
#16	2.00	28%	28%				101111   10111   N 101111	
#20	0.850	19%	21%			20%		
//30	0.600	1970	19% 15%					
#40	0.425	13%	13%	30.0%	0.001			
#50	0.300	1370	11%	30.0%	0.0%	10%		10.0%
#60	0.250	10%	10%					
//80	0.180	8%	8%			015		
#100	0.150	8%	8%			100 0	000 10.608 1,000	0.100 0.010 0.001
//140	0.106		7%				Particle Gile (mm)	
#170	0.090	1.0	6%		1		1044 A 144 2142	
#200	0.075	5.8%	5.8%	7.0%	0.0%	+ Elizon Secon	Max Opeca	A Come Ventor

Comments:

Reviewed by:

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# Materials Testing & Consulting, Inc.

Geotechnical Engineering . Special Inspection . Materials Testing . Environmental Consulting



McLucas & Associates, Inc.	Date:	July 21, 2014
US 101 & Pete Back Rd	Project:	Jefferson County Mine Site Exploration
Quilcene	Project #:	14K026
Stephen Taylor	Sample #:	K14-175
	US 101 & Pete Back Rd Quilcene	US 101 & Pete Back Rd Project: Quilcene Project #:

As requested MTC, Inc. has performed the following test(s) on the sample referenced above. The testing was performed in accordance with current applicable AASHTO or ASTM standards as indicated below. The results obtained in our laboratory were as follows below or on the attached pages:

	Test(s) Performed:	Test Results		Test(s) Performed:	Test Results
7	Sieve Analysis	FAIL		Sulfate Soundness	
	Proctor			Unit Weight	
	Sand Equivalent		1	WSDOT Degradation	3
	Fracture Count		~	LA Abrasion	17.10%
	Moisture Content				
	Specific Gravity, Coarse				
	Specific Gravity, Fine			-	
	Hydrometer Analysis				
	Atterberg Limits				
	Asphalt Extraction/Gradation				
	Rice Density				

If you have any questions concerning the test results, the procedures used, or if we can be of any further assistance please call on us at the number below.

Respectfully Submitted, Samuel Hyatt WABO Supervising Laboratory Technician

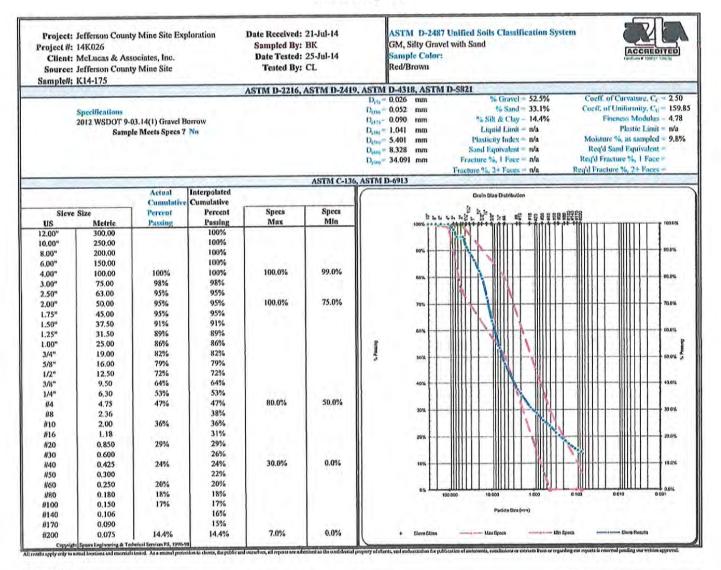
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#### **Sieve Report**



Comments:

Reviewed by:

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CONTRACTOR OF THE OWNER OWNE Geotechnical Engineering & Consulting . Special Inspection . Materials Testing Environmental Consulting

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#### **Resistance to Degradation of Small-Size Coarse Aggregate** by Abrasion and Impact in the Los Angeles Machine **ASTM C-131**

Project: Jefferson County Mine Site Exploration	Client: McLucas & Associates, Inc.
Project #: 14K026	Sampled by: BK
Lab #: K14-173	Date Received: July 21, 2014
Location/Source: Jefferson County Mine Site	Tested by: CL
Description: Red/Brown Gravel / Sand	Date Tested: July 25, 2014
Equipment Used:	

Α	
500	_
5002.2 g	
4243.8 g	
15.16 %	El la Media Maria
%	Pass 🗌 Fail 🗌
	5002.2 g 4243.8 g 15.16 %

Remarks:

Reviewed by:

All results apply only to actual locations and materials rested. As a mutual protection to clients, the public and ourselves, all reports are submitted as the confidential property of tlents, and astinorization for publication of statements, conclusions or extracts from or regarding our reports is reserved pending our written approval. ) 2008-2014 Materials Testing & Consulting, Inc. All rights reserved.

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Materials Testing & Consulting



### Aggregate Durability Index (WSDOT 113)

Project: Jefferson County Mine Site Exploration Project #: <u>14K026</u> Lab #: <u>K14-173</u> Location/Source: Jefferson County Mine Site

Description: Red/ Brown Gravel w/ Sand

Equipment Used:

Client: McLucas & Associates, In	ic.
Sampled By: BK	
Date Received: July 21, 2014	
Tested By: CL	
Date Tested: July 25, 2014	

Data

	<u>Run #1</u>	<u>Run #2</u> 	
Test Sample Height (H):	31.1		
Durability Index Value (D):	5		
Average Durability Index:	5		
Required Durability Index:		Pass 🗌	Fail 🗌

#### D = (15-H) / (15+1.75H) \* 100

Reviewed by:

All results apply only to actual locations and materials tested. As a mutual protection to clients, the public and ourselves, all reports are submitted as the confidential property of "ents, and authorization for publication of statements, conclusions or extracts from or regarding our reposts is reserved pending our written approval, 008-2014 Materials Testing & Consulting, Inc. All rights reserved.

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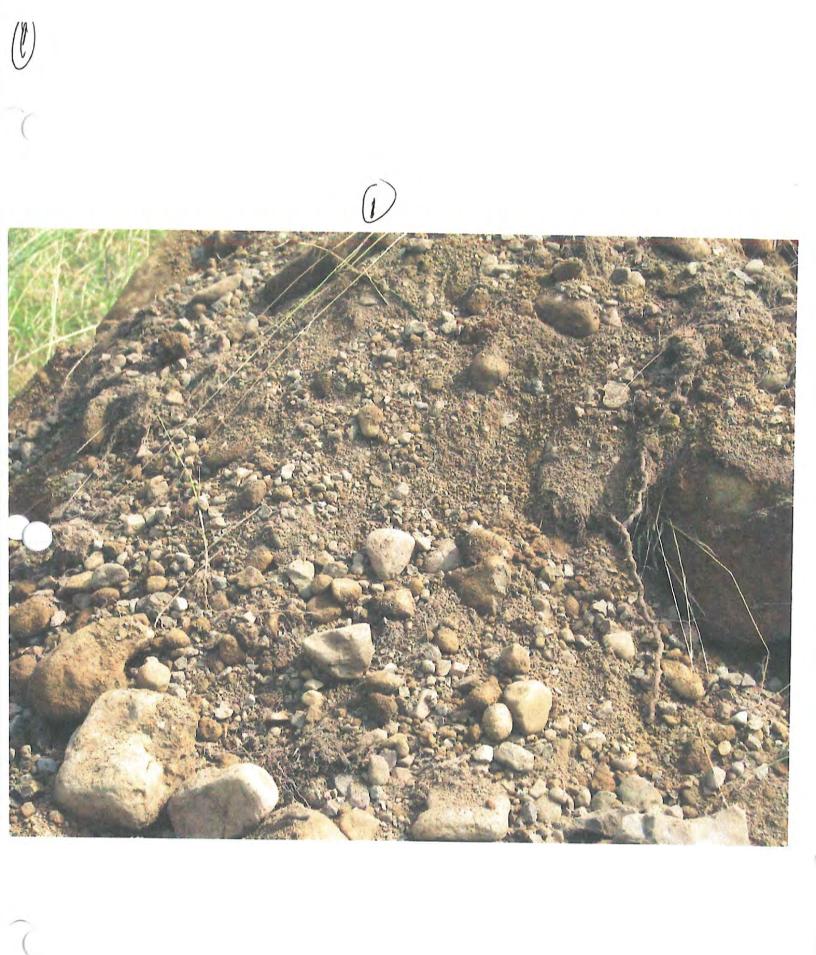
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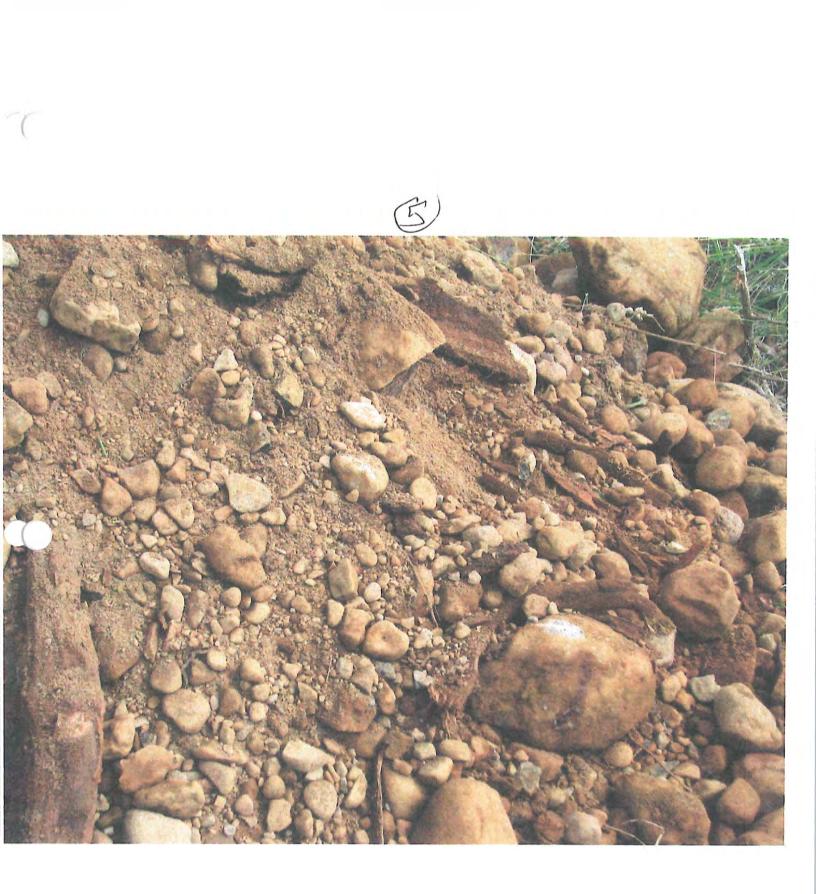








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# RESERVE QUANTITY

### Base Map Sources: Google Earth

Property Line Setbacks: 50' setbacks utilized as per Jefferson county and WSDNR

<u>Mining Depth:</u> Current pit floor of 128' MSL, average elevation height is 173' MSL, average mining depth is 45'.

<u>Overburden Volumes:</u> McLucas as determined that a 10% factor will be utilized for the overburden, topsoil, and subsoil's.

<u>Calculation Technique:</u> McLucas has utilized Google Earth elevations, dimensions, and aerial photography to calculate the approximate volume of sand and gravel contained within the Penny Creek Pit site.

<u>Qualifications and Limitations:</u> McLucas is not an engineering company, but a geologic firm. McLucas has used this method to determine the approximate volumes of sand & gravel or bedrock contained within mine operations. We approach these calculations conservatively, and offer the results as our best calculation of reserves. An engineering company should be retained for exact quantities, if the client feels necessary for these calculations.

The following is McLucas calculations of the Penny Creek Pit sand and gravel reserves;

(A) Reserve Calculation:

(1) South boundary line: 1,325', North boundary line: 1,266': Average length: 1296'

- (2) West boundary line: 1292', East boundary line: 801': Average width: 1047'
- (3) West elevation: 190' msl: East elevation: 155' msl: Average height: 45'
- (4) 1296' x 1047' x 45' = 61,061,040 cu. feet dived by 27 cu feet/cu. yd. = 2,261,520 cu. yds.

## (B) Overburden, Topsoil, Subsoil:

(1) A 10% factor has been used, 2,261,520 cu. yds. X 10% = Minus 226,152 cu. yds. = 2,035,369 cu. yds. remaining reserve.

### (C) 50' Setback Property Lines Calculation:

- (1) South property line of 1325' x 50' setback = 66,250 sq. feet
- (2) East property line of 801' x 50' setback = 40,050 sq. feet
- (3) North property line of 1266' x 50' setback = 63,300 sq. feet
- (4) West property line of 1292 x 50' setback = 64,600 sq. feet
- (5) This is a total of 234,200 sq. feet for the 50' setback

(6) A 234,200 sq. feet x average height of 45' = 10,539,000 cu. feet divided by 27 cu. feet /cu.yd. = 390,333 cu. yds. for the 50' setback from property line. (7) The 2 035 369 cu. yds. of remaining reserves less 390 333 cu. yds. setbacks = 1 645 035 cu.

(7) The 2,035,369 cu. yds. of remaining reserves, less 390,333 cu. yds. setbacks = 1,645,035 cu. yds. of remaining reserves.

### (D) 2:1 Reclamation Slopes:

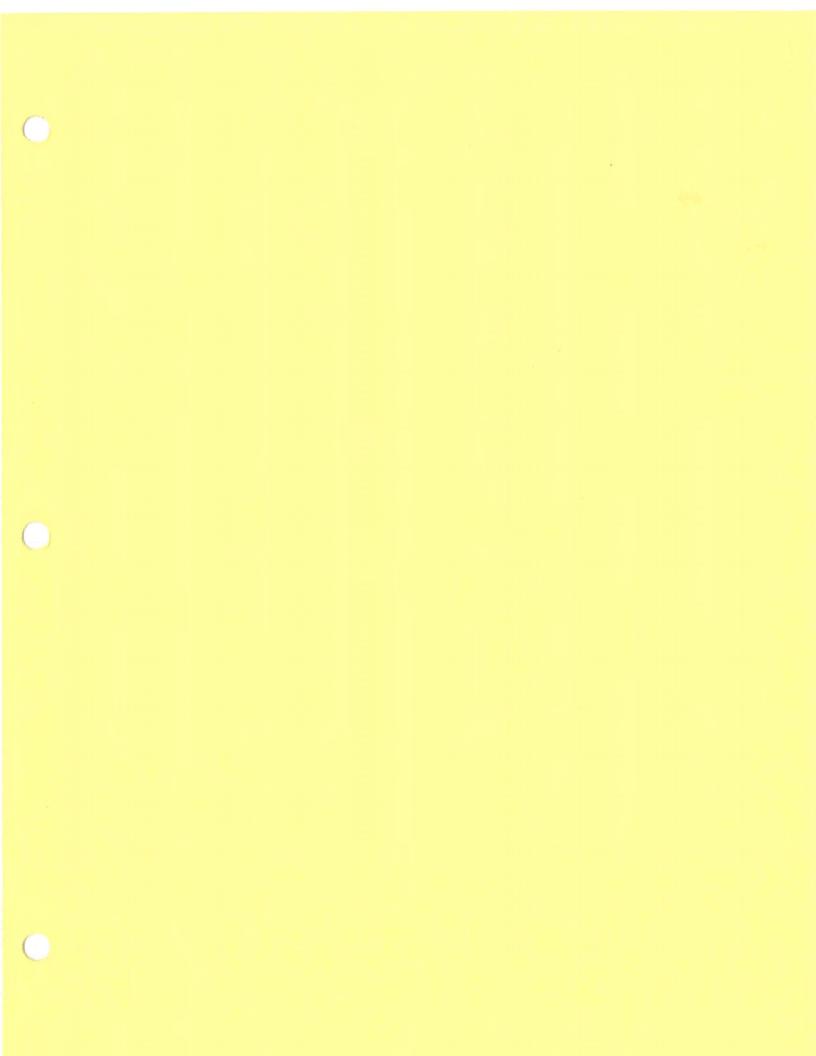
(1) McLucas has utilized ½ of the 50' setback calculation of 390,333 to account for the final reclamation slopes of 2:1: 390,333 cu. yds. divided by 2 = 195,167 cu. yds. Remaining reserves are: 1,645,035 cu. yds. minus 195,167 cu. yds. 2-1 slopes = 1,449,868 cu. yds. of remaining reserves.

### (E) Previous Mining Deduction:

(1) McLucas has walked the property and analysis the aerial views of the site, and the mining floor base has been mined to a 128' msl, but it is a very small area located in the east portion of the site. To be conservative, McLucas has deducted an additional 10% of the remaining reserves of 1,449,868 cu. yds. minus 10% 144,987 cu. yds. = 1,304,881 remaining reserves of sand and gravel.

### Reserve Quantity:

It is McLucas opinion that the Penny Creek Pit site currently has a reserve of 1,304,881 cubic yards of sand and gravel. The <u>1,304,881 cubic yards</u> x a conversion factor of 1.5 equals: <u>1,957,322 tons</u> of sand and gravel reserves, plus or minus ten percent. McLucas tested the material at the 128' msl at the pit floor, and at the 165' msl the midpoint of the site where the entrance road crossed the site, which profiles the deposit from the 128' floor to the 165' midpoint is consistent with gravel content. McLucas did not investigate the gravel content from the 165' msl, to the 190' msl west property boundary, and assumes that the deposit continues to that point. This area is currently treed and should be investigated as the trees are removed.

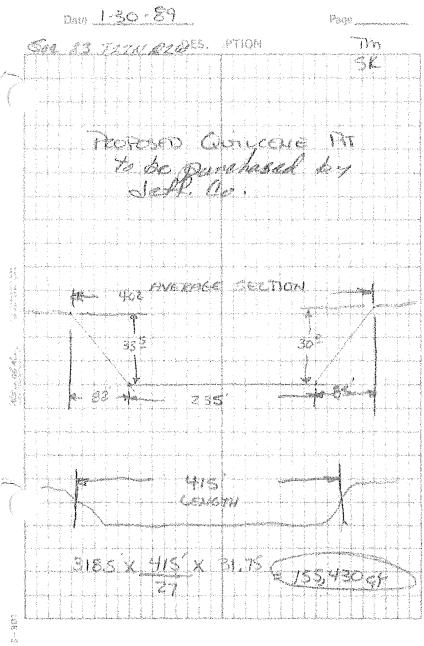






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182 162 127' 152 1202' 66 156 Google earth A ugust celutions Google earth 182' 189' 1000 300 \ 167' feet meters | 7/5/2013 | 168' |7x' 163 kood 169 191 Road 173 Wond - 190' MSL oreage Average 193' elwation East - 155' ASL average Average 193' elwation



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### MARKET REVIEW

McLucas has taken another look at the Economic Profile of Jefferson County. As stated by the updated profile, "The outlook for Jefferson County for the remainder of 2016 and into 2017 is one of growth, but it is likely to be modest at best. While the goods-producing sector has shown some growth during 2016, the service-providing sector seems to be treading water. In 2016 the construction, manufacturing and trade sectors showed modest gains as government remained steady." McLucas opinion is that the competition is great for aggregate sales in Jefferson County with approximately 12 or more active pits competing in a relatively small market. We will adjust our projections accordingly.

Jefferson County is located on the Olympic peninsula in the northwestern Washington state. Jefferson County is nestled between the Admiralty Inlet and Clallam, Mason, Grays Harbor and Kitsap counties. Named for President Thomas Jefferson, it was created in 1852 from a portion of Lewis County; the county seat is Port Townsend. Much of the county is publicly owned land. About 60 percent of the county comprises the Olympic national park, and Olympic National forest, and roughly 20 percent is under the jurisdiction of federal and state agencies. The Hoh Reservation and a small corner of the Quinault Reservation are also located in Jefferson County.

The local economy in Jefferson County's current economic base grew from a history of natural resources development in logging and fishing in the late 1880's. By the turn of the 20<sup>th</sup> century, sawmills fish processing, and ship and boatbuilding were firmly established in the coastal areas of the county. The county also was known for smuggling spirits from Canada in and out of the county's many hidden coves and forests during prohibition.

Port Townsend, the economic center of the county, has experienced periods of boom and bust over the century do to its dependency on these volatile industries. During 2011, Port Townsend finally started to recover from the 2007 to 2009 Great Recession with visible signs of economic growth with new shops, new investments and rebounds in tourism. But tax revenues and other activities such as residential real estate have yet to spring back to pre- 2007 levels.

The economy of Jefferson County is comprised of both industrial, and an agricultural base. Industrially, the county's history climate and terrain support healthy forest products and maritime sectors, including lumber, fish processing, ship repair and maintenance as well as ship and boat building. The agricultural base encompasses tree farms for logging, aquaculture and a flourishing organic farming sector. Food production, stemming from this growing agricultural segment, includes artisan cheeses and bread. Tourism also provides revenue streams to the county Economic activity is supported by vibrant port and airport, ferry terminal and state highways.

Jefferson County has seventeen permitted operating sand/gravel, and bedrock mines operating within the county. There is a reasonably good market for construction aggregates within Jefferson County. Do to the number of operating mines, the market share becomes very local

with market distances within twenty miles of each operating mine. This competitive market has been taken into consideration in the formulation of the market demand for the Penny Creek Pit location.

McLucas has contacted approximately 12 producers of aggregates located in the Olympic Peninsula. McLucas has obtained eight aggregate pricing quotes which enables McLucas to determine the average price per ton and generate a reasonable royalty for the Royalty Based Discounted Cash Flow, Table 1. Producers commented on the large deposit of sand and gravel contained within the Penny Creek Pit site, stating that many of the deposits in the Olympic Peninsula are not as deep, nor contain as much sand and gravel as the Penny Creek Pit site.

McLucas has enclosed additional information about Jefferson County which can be reviewed in the appendices of this report.

## **ROYALTY RATE**

### <u>ROYALTY</u>

For a mineral valuation, a royalty rate is not necessarily what is paid, nor received, for mineral materials in-the-ground. Alternatively, it can be the wholesale value of the finished product. Other factors such as the existence of competing mines, adverse environmental factors, and the distance from the market the property services, are factored into the discount rate, excluding all costs associated with the business portion of the company's aggregate-production operation. For this reason, a royalty rate is always substantially lower than the retail or wholesale unit price for construction aggregates.

McLucas has surveyed the Market area for the Penny Creek site. The Market Area/Distance for the majority of operating mines is normally within 15 miles. Hauling costs are one of the major deterrents to the market place distance. This can be shorter or longer, depending upon the next available competitive source of aggregates.

A royalty amount is usually the price paid to a land owner by a contract operator (i.e. a lessee) who has the ability to obtain in-place mineral materials while using his own mining, mineral-processing, loading, and transport equipment. In this case, Jefferson County is the owner of the Penny Creek Pit,

The principal purpose of assessing a royalty is to produce and income for the owner of a mineral deposit, and to protect the resource for maximum future development income. The royalty changed for extraction of a mineral commodity can be calculated in several ways. The most common methods include:

- 1) determination of comparable sale, including royalties;
- 2) assessment of a percentage of market place prices of processed aggregates;
- 3) assessment of previous production and sales, determining the average price per ton;
- 4) determination of income, minus cost; or
- 5) conducting an auction or competitive bid; or
- 6) current lease between lessor and lessee.

Method 2, the assessment of a percentage of the market place prices of processed aggregates and borrow pit was employed. McLucas was able to obtain current aggregate prices from the Olympic Peninsula market area. The summary of this analysis of the average price per ton for processed aggregates, and borrow pit run.

# PENNY CREEK PIT AGGREGATE PRODCERS SURVEY AVERAGE AGGREGATE PRICE PER TON

Gravel			Drain	Pea	
Borrow	¾ to ½	<u>1 ½ minus</u>	Rock	Gravel	Average
\$8.00	\$10.00	\$10.00	\$8.50	\$13.00	\$ 9.90 ton
\$7.50.	\$11.50	\$11.00	\$11.50	\$12.00	\$10.70 ton
\$8.00	\$12.00	\$12.00	\$9.00	\$13.00	\$10.80 ton
\$8.00	\$15.00	\$15.00	\$11.00	\$15.00	\$12.80 ton
\$8.00	\$12.00	\$11.00	\$10.00	\$13.00	\$10.80 ton
\$8.00	\$11.00	\$11.00	\$9.00	\$12.00	\$10.20 ton
\$8.50	\$12.00	\$12.00	\$10.00	\$12.50	\$11.00 ton
\$8.00	\$11.00	\$11.00	\$9.00	\$12.00	\$10.20 ton
\$8.00	\$11.93	\$11.71	\$ 9.86	\$12.93	\$10.89 ton
	Borrow \$8.00 \$7.50. \$8.00 \$8.00 \$8.00 \$8.00 \$8.50 \$8.00	Borrow¾ to ½\$8.00\$10.00\$7.50.\$11.50\$8.00\$12.00\$8.00\$15.00\$8.00\$12.00\$8.00\$12.00\$8.00\$11.00\$8.50\$12.00\$8.00\$11.00\$8.00\$11.00	Borrow¾ to ½1½ minus\$8.00\$10.00\$10.00\$7.50.\$11.50\$11.00\$8.00\$12.00\$12.00\$8.00\$15.00\$15.00\$8.00\$12.00\$11.00\$8.00\$12.00\$11.00\$8.00\$11.00\$11.00\$8.00\$11.00\$11.00\$8.50\$12.00\$12.00\$8.00\$11.00\$11.00	Borrow¾ to ½1½ minusRock\$8.00\$10.00\$10.00\$8.50\$7.50.\$11.50\$11.00\$11.50\$8.00\$12.00\$12.00\$9.00\$8.00\$15.00\$15.00\$11.00\$8.00\$12.00\$11.00\$10.00\$8.00\$12.00\$11.00\$10.00\$8.00\$12.00\$11.00\$10.00\$8.00\$11.00\$11.00\$9.00\$8.50\$12.00\$12.00\$10.00\$8.00\$11.00\$12.00\$10.00\$8.00\$11.00\$12.00\$10.00\$8.00\$11.00\$10.00	Borrow¾ to ½1½ minusRockGravel\$8.00\$10.00\$10.00\$8.50\$13.00\$7.50.\$11.50\$11.00\$11.50\$12.00\$8.00\$12.00\$12.00\$9.00\$13.00\$8.00\$15.00\$15.00\$11.00\$15.00\$8.00\$12.00\$11.00\$10.00\$13.00\$8.00\$12.00\$11.00\$10.00\$13.00\$8.00\$12.00\$11.00\$10.00\$12.00\$8.00\$11.00\$11.00\$9.00\$12.00\$8.50\$12.00\$12.00\$10.00\$12.50\$8.00\$11.00\$11.00\$9.00\$12.00

### Average Price Per Ton: \$10.89

### \*ROYALTY CALCULATED AT 10%: \$1.09 per ton rounded

\*WITHIN THE WASHINGTON MARKET PLACE, ROYALTIES RANGE FROM 10% TO 15%, DEPENDING ON THE LOCAL MARKET. FOR THE PURPOSE OF THIS REPORT, MCLUCAS HAS UTILIZED A 10% BASE DUE TO THE LIMITATIONS OF THE MARKET PLACE.

\*\*MCLUCAS HAS UTILIZED THE CONSERVATIVE TONNAGE OF **25,000 TONS** AS THE STARTING BASE FOR PRODUCTION. MCLUCAS HAS ALSO UTILIZED THE AVERAGE PRICE PER TON OF \$1.09.

The criteria for establishment of a fair-market royalty should be:

1) fairness to both the resource owner and the resource lessee or potential buyer;

- 2) reflection of current market place values;
- 3) predictability for future rate assessments;
- 4) that it be easy to use and compute; and
- 5) that it be related to an acceptable economic base.

### VALUE CALCULATION

Net present Value (NPV) is a method of comparing the value of money at the time a mineral valuation is prepared with its future value. A dollar today is worth more than a dollar in the future because inflation erodes the buying power of future money, while money available today can be invested and grown.

In addition, local economic and regulatory information contained within McLucas' files were used to aid in the valuation process, including determination of the Highest and Best Use of the subject property, which is deemed to be extraction of sand and gravel within the Penny Creek Pit property.

The term constant dollars refer to the net present value relative to a fixed date. The term current dollars refer to the unadjusted value of money. The term discount rate refers to a percentage used to calculate the NPV, and reflects the time-value of money. For example, assuming a discount rate of 5%, the net present value of \$2,000.00 ten years from now is \$1,227.83. So, if someone offered you \$1,000.00 at the present date, or \$2,000.00 ten years from now, the recipient would choose the latter because its' net present value is higher.

Calculating NPV is difficult, in part because it is not clear what discount rate should be used, nor is it clear how to project future changes in the discount rate. Typically, when the term "constant dollar" is used, it reflects the NPV of historic data, using the consumer price index (CPI) as the discount rate. Since the CPI is known in the present case, this provides a method of adjusting figures for the effects of inflation.

Since the discount rate reflects the future value of money, it typically has two components: (1) as an adjustment for inflation; and (2) a risk-adjusted return on the use of the money. Since market forces typically incorporate inflation adjustments into investment returns and borrowing costs, often the discount rate is keyed to a standard reference rate.

McLucas utilizes the current 30-year, Triple A, Treasury bond rate as part of the discount rate for property mineral valuations because it is a conservative figure, is risk-free, and is the discount rate typically used by banks for economic analysis of loan programs.

The discount rate should be the APR of the highest risk-adjustment rate of return that can be obtained by investing money, or the lowest rate at which money can be borrowed, whichever is higher.

### <u>Royalty</u>

For mineral valuation, a royalty rate is not necessarily what is paid, nor received, for mineral materials in-the-ground. Alternatively, it can be a percentage of the wholesale value of the finished product. Other factors such as the existence of competing mines, adverse environmental factors, and distance from the market it serves are factored into the discount rate, rather than the royalty rate. A wholesale unit price is required to determine the net value of the remaining, commercially-extractable sand and gravel reserve contained within the Penny Creek Pit site. For this reason, a royalty rate is always substantially lower than a retail/wholesale unit price for construction aggregates. For this report, McLucas has determined that the royalty for the Penny Creek Pit is  $\frac{$1.09 \text{ per ton}}{.}$ 

### Discount Rate

The discount rate applied for completing the valuation formula is <u>9.41%</u>. This is based on a triple A Bond rate of 3.41 percent, a rate fluctuation factor of 1.0% for each 4-year period (4%) of future revenue projections. All permits are in place and the mine is in good standing with Jefferson County, and the Washington Department of Natural Resources is requiring an updated reclamation plan, which is straight forward. McLucas finds no environmental concerns within the property. McLucas has assessed a risk factor of 2% to the discount rate. For this report, a <u>9.41%</u> rounded discount rate will be utilized.

## **Starting Annual Production**

McLucas has determined that 2018 annual production base will be 25,000 tons, a conservative starting production amount for the Penny Creek Pit. This starting production will be escalated by 2,000 tons per year, for the next 5-years of production (2019-2023).

Production escalation after year 2023 will be escalated annually by the 5-year average for the Consumer Price Index (CPI), which is 1.76%.

## Reserve Calculation and Determination of Mine Life

McLucas, within this report, has determined that the Penny Creek Pit had a sand and gravel reserve of <u>1.9 million tons</u>. Please review the Reserve Quantity section of this report.

The mine life is estimated to be 30-40 years.

## Royalty Rate and Escalation Percentage

As part of the subject valuation, a royalty assessment was performed. A royalty amount is usually based on a percentage of the average retail/wholesale price of the processed aggregates through analysis of competing mine operator's retail price lists. McLucas has determined that the projected Average Retail Price Per Ton for sand and gravel aggregates in the Penny Creek Pit is \$10.89 per ton. Royalty rates range from 10% to 20% of the average price per ton. McLucas has selected an average of 10.0% royalty rate as a conservative approach. This computes to a \$1.09 per-ton royalty. The royalty rate is escalated each year through application of a <u>3.82%</u> annual increase, based on the 5-year average of the Producers Price Index (PPI).

## **Discounted Cash Flow Analysis**

From all the above information, it is now possible to construct a Discounted Cash Flow Analysis to arrive at a market value conclusion for the aggregates within the Penny Creek Mine that can be mined within a <u>20-year</u> period, effective the day of the valuation. A discounted cash flow analysis accounts for the time-value of money by attributing a lesser percent value for cash flows that will not be realized until a given future date. This type of reasoning is typically used by investors when analyzing investments with irregular future cash flows. In order to perform this discounted cash-flow analysis, it was necessary to make several assumptions, enumerated below.

For the purposes of the subject valuation, excavation and royalty payments will commence as of <u>January 1, 2018</u>, these will proceed in an orderly manner for <u>19-years</u>, or until the sand and gravel reserves have been exhausted. Year 2017 is considered closed as Jefferson County sells the Penny Creek Pit and land.

The resultant yearly cash flows are tabulated in Table 1. These cash flows have been entered into the discounted cash flow analysis program of a Hewlett Packard 12-C calculator, using a <u>9.41 % discount rate</u>.

Based on the discounted cash flow of the royalty stream, and utilizing the above-described elements, the net present value (NPV) of the remaining mineable sand and gravel within the Penny Creek Pit as of September February 27, 2017, through application of the Morkill Mining Formula is: <u>NPV \$393,233</u>

PV = <u>R (1+i) to the nth power - 1</u> I (1+i) to the nth power WHERE: r = average annual removal volume x royalty rate I = discount rate n = mine life

TABLE 1 FOLLOWS:

# <u>TABLE 1</u> <u>Penny Creek Pit</u> <u>NET PRESENT VALUE</u> <u>DCF ROYALTY BASED SPREADSHEET</u>

Sand & Gravel Reserves: 1.9 million tons

Annual Production: Starting production, 25,000 tons

Production Escalation: 2,000 tons per year for first 5 years, then 1.76%, 5-year average of the Consumer Price Index (CPI)

Mine Life: 20 years DCF – 30-year production and sales mine life

Starting Royalty: \$1.09 per ton, as per lease agreement

Royalty Escalation: 3.82%, 5-year average of the Producers Price Index (PPI)

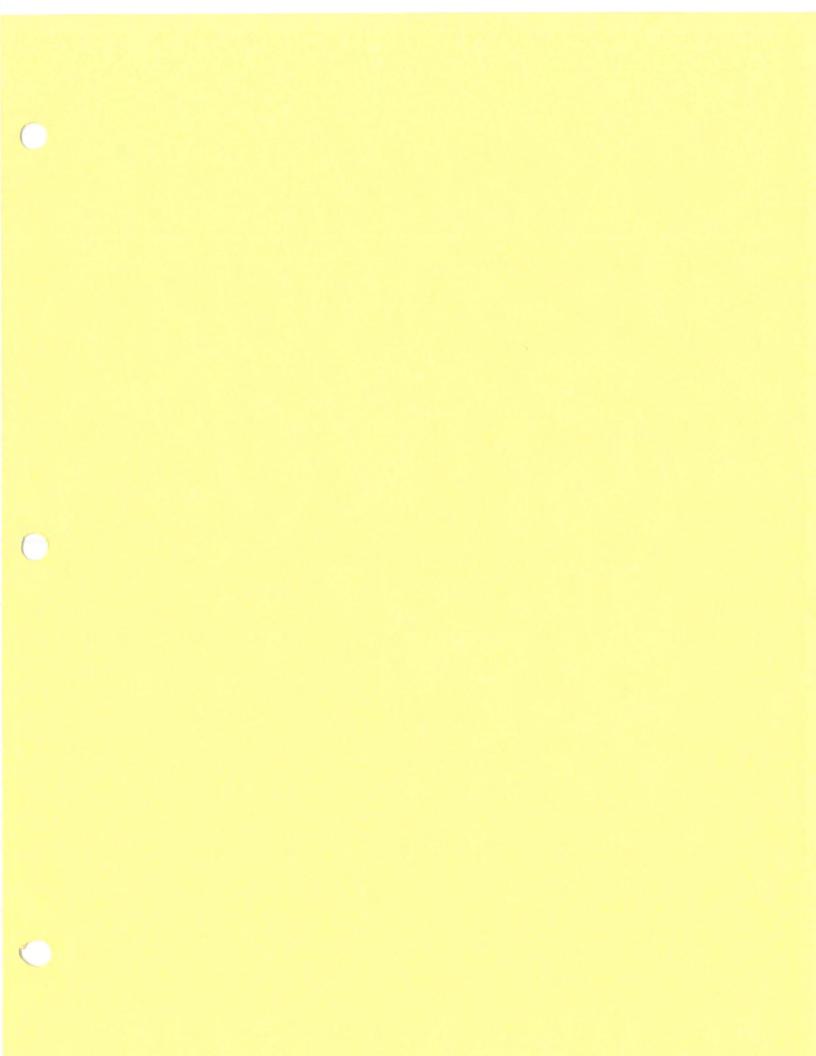
Starting Average Price Per Ton: \$10.89

Discount Rate: 9.41%

Year: Production: Royalty: Net Royalty:	2017 1 closed sale of pit -0-	2018 2 25,000 \$1.09 \$27,250	2019 3 27,000 \$1.13 \$30,510	2020 4 29,000 \$1.17 \$33,930	2021 5 31,000 \$1.21 \$37,510
Year: Production: Royalty: Net Royalty:	2022 6 33,000 \$1.26 \$41,580	2023 7 35,000 \$1.31 \$45,850	2024 8 35,616 \$1.36 \$48,438	2025 9 36,242 \$1.41 \$51,101	2026 10 36,880 \$1.47 \$54,214
Year: Production: Royalty: Net Royalty:	2027 11 37,529 \$1.52 \$57,044	2028 12 38,190 \$1.58 \$60,340	2029 13 38,862 \$1.64 \$63,734	2030 14 39,546 \$1.70 \$67,228	2031 15 40,242 \$1.77 \$71,228
Year: Production: Royalty: Net Royalty:	2032 16 40,950 \$1.84 \$75,348	2033 17 41,671 \$1.91 \$79,592	2034 18 42,404 \$1.98 \$83,960	2035 19 43,151 \$2.06 \$88,891	2036 20 43,911 \$2.14 \$93,970

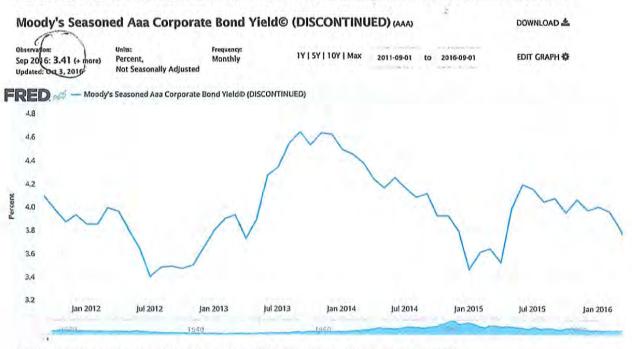
Net Present Value of Sand and Gravel with a 9.41% Discount = \$393,233 NPV

\*Sand & Gravel Produced and sold over 20 years: 695,194 tons, remaining tons: 1,204,806 \*\*The Net Present Value of the Sand and Gravel does not include the reversionary value of the land, or timber value if any.



(AAA)

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Shaded areas indicate U.S. recessions (https://fredhelp.stlouisfed.org/fixab/dat86andingstbxo8tka/FedussibReberve) System (US)

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#### NOTES

Source: Board of Governors of the Federal Reserve System (US) G# (http://www.federalreserve.gov/)

Release: H.15 Selected Interest Rates @ (http://www.federalreserve.gov/releases/h15/)

The Federal Reserve Board has discontinued this series as of October 11, 2016. More Information, including possible alternative series, can be found at http://www.federalreserve.gov/feeds/h15.html (http://www.federalreserve.gov/feeds/h15.html).

Averages of dally data. Copyright, 2016, Moody's Investor Services. Reprinted with permission. Moody's tries to include bonds with remaining maturities as close as possible to 30 years. Moody's drops bonds if the remaining life fails below 20 years, if the bond is susceptible to redemption, or if the rating changes.

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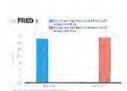
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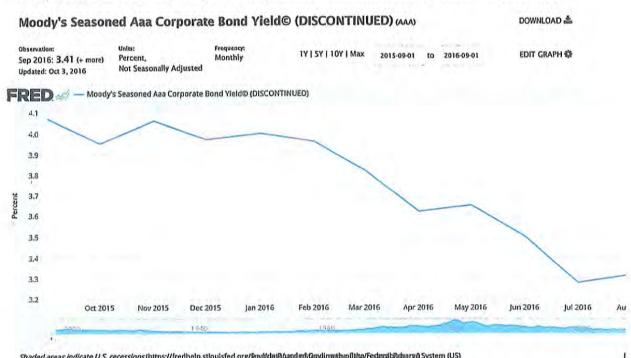
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#### NOTES

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Release: H.15 Selected Interest Rates @ (http://www.federalreserve.gov/releases/h15/)

The Federal Reserve Board has discontinued this series as of October 11, 2016. More information, including possible alternative series, can be found at http://www.federalreserve.gov/feeds/h15.html (http://www.federalreserve.gov/feeds/h15.html).

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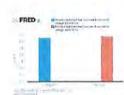
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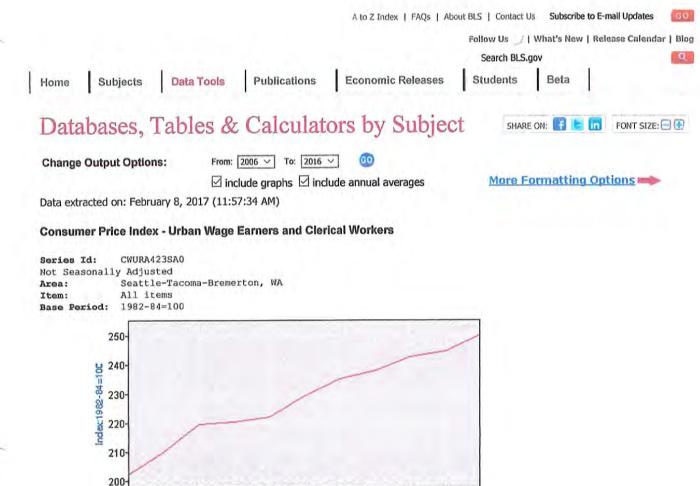
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Sources



2004								Acres in the second	-	
2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
					Vear					

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Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	HALF1	HALF2
2006		198.0		202.5		203.8		205.1		203.9		204.3	202.6	200.8	204.4
2007	1	205.746		210.388		210.550		210.220		213.107		214.024	210.266	208.373	212.160
2008	1	216.332		218.483		223.573		223.273		220.687		216.424	219.692	218.664	220.721
2009	1	218.752		220.208		221.993		221.873		221.339		220.905	220.658	219.853	221.463
2010		221.215		222.309		221.857		223.444		223.112		222.853	222.384	221.714	223.053
2011		225.790	1	228.313		230.072		230.558		232.697		231.297	229.435	227.455	231.415
2012		232.081		234.808		236.222		236.750		237.947		234.588	235.261	233.959	236.564
2013	1	236.542	1	237.405		238.963		239.343		239.363		238.021	238.129	237.271	238.987
2014	1	239.607	-	243.690		244.293		244.471		244.289		240.726	242.732	242.006	243.458
2015	1	240.735		243.165		246.925		247.500		246.307	-	246.146	244.933	243.104	246.761
2016		246.464	1	249.396		251.848		252.393		252.639		252.286	250.523	248.769	252.277

**12-Month Percent Change** 

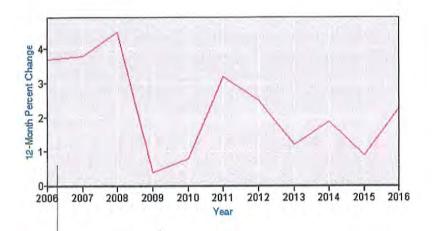
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 CWURA423SA0

 Not Seasonally Adjusted

 Area:
 Seattle-Tacoma-Bremerton, WA

 Item:
 All items

 Base Period:
 1982-84=100



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HALF2	HALF1	Annual	Dec	Nov	Oct	Sep	Aug	Jul	Jun	May	Apr	Mar	Feb	Jan	Vear
4.0	3.5	3.7	4.2		2.7		5.0		4.6		3.2		2.9		2006
3.8	3.8	3.8	4.8		4.5		2.5		3.3		3.9		3.9		2007
4.0	4.9	4.5	1.1		3.6		6.2		6.2	1	3.8		5.1		2008
0.3	0.5	0.4	2.1		0.3		-0.6		-0.7		0.8		1.1		2009
0.7	0.8	0.8	0.9		0.8		0.7		-0.1		1.0		1.1		2010
3.7	2.6	3.2	3.8		4.3		3.2		3.7		2.7		2.1		2011
2.2	2.9	2.5	1.4	-	2.3		2.7		2.7		2.8		2.8		2012
1.0	1.4	1.2	1.5		0.6		1.1		1.2		1.1		1.9		2013
1.9	2.0	1.9	1.1		2.1		2.1		2.2		2.6		1.3		2014
1.4	0.5	0.9	2.3		0.8		1.2		1.1		-0.2		0.5		2015
2.2	2.3	2.3	2.5		2.6		2.0		2.0		2.6		2.4		2016

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Series Id: PCU212321212321 Industry: Construction sand and gravel mining Product: Construction sand and gravel mining Base Date: 198206 325-

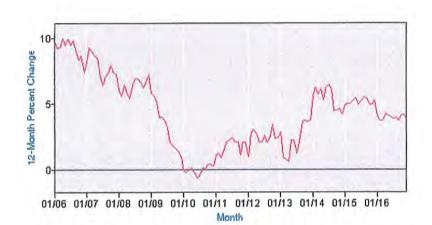


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Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2006	222.4	222.4	223.2	227.5	228.8	230.1	231.2	232.1	232.3	232.3	233.5	233.7	229.1
2007	240.7	242.8	243.2	247.0	248.2	246.3	246.1	248.3	249.2	250.6	250.8	250.6	247.0
2008	255.2	256.5	258.7	261.4	261.6	262.1	263.0	265.4	265.7	266.1	267.3	268.7	262.6
2009	270.1	270.8	271.8	271.7	272.0	271.7	271.4	270.7	270.4	270.4	271.1	271.5	271.1
2010	269.8	270.2	271.7	272.0	271.5	270.2	270.4	271.1	270.7	271.5	272.2	272.4	271.1
2011	272.7	273.4	274.2	276.2	277.1	276.1	277.0	276.7	276.3	274.5	277.9	278.1	275.8
2012	275.4	280.7	282.4	283.6	282.9	282.0	284.2	282.3	283.3	283.7	284.3	284.9	282.5
2013	283.1	283.2	284.7	285.4	289.0	288.2	287.5	288.3	293.6	294.3	294.5	295.3	288.9
2014	298.9	300.7	300.8	302.9	304.4	306.1	306.0	305.8	306.5	307.5	307.9	307.6	304.6
2015	313.6	315.7	315.7	318.5	320.8	321.2	321.9	322.5	323.1	322.6	323.1	323.6	320.2
2016	326.3	327.4	327.4	331.9	333.9	334.1	334.1	335.0	335.1(P)	335.9(P)	336.2(P)	335.9(P)	332.8(P)

### **12-Month Percent Change**

Series Id:	PC02123212123	21			
Industry:	Construction	sand	and	gravel	mining
Product:	Construction	sand	and	gravel	mining
Base Date:	198206				



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Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
2006	9.7	9.2	9.3	10.0	9.5	9.9	9.5	9.8	8.9	8.3	8.6	7.4	9.1	
2007	8.2	9.2	9.0	8.6	8.5	7.0	6.4	7.0	7.3	7.9	7.4	7.2	7.8	
2008	6.0	5.6	6.4	5.8	5.4	6.4	6.9	6.9	6.6	6.2	6.6	7.2	6.3	
2009	5.8	5.6	5.1	3.9	4.0	3.7	3.2	2.0	1.8	1.6	1.4	1.0	3.2	
2010	-0.1	-0.2	0.0	0.1	-0.2	-0.6	-0.4	0.1	0.1	0.4	0.4	0.3	0.0	
2011	1.1	1.2	0.9	1.5	2.1	2.2	2.4	2.1	2.1	1.1	2.1	2.1	1.7	
2012	1.0	2.7	3.0	2.7	2.1	2.1	2.6	2.0	2.5	3.4	2.3	2.4	2.4	3.82 JURAU
2013	2.8	0.9	0.8	0.6	2.2	2.2	1.2	2.1	3.6	3.7	3.6	3.7	2.3	2 9 92 5VR HU
2014	5.6	6.2	5.7	6.1	5.3	6.2	6.4	6.1	4.4	4.5	4.6	4.2	5.4	× 3. 00
2015	4.9	5.0	5.0	5.2	5.4	4.9	5.2	5.5	5.4	4.9	4.9	5.2	5.1	
2016	4.0	3.7	3.7	4.2	4.1	4.0	3.8	3.9	3.7(P)	4.1(P)	4.1(P)	3.8(P)	3.9(P)	V

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# POSITIVE AND NEGATIVE FACTORS HIGHEST AND BEST USE

### Positive Factors

1. The site is in a reasonably good market place, the Olympic Peninsula, Washington.

2. Access to the mine is excellent, with entrance off US 101.

3. The mine has been issued all the local and state permits to mine, but requires an updated WSDNR reclamation permit renewal, which is straight forward.

4. The sand and gravel is well sorted supplying all aggregate sizes and meets WSDOT specification for construction aggregates, except for #40 mesh.

5. The 30-acre site has an above normal glacial deposit of sand and gravel in a sloping terrace from 198' msl to 128' msl.

### **Negative Factors**

1. The current Jefferson County Conditional Use Permit does not have the capability to wash aggregates, and would require a new Conditional Use permit

2. The current Jefferson County Conditional Use Permit does not have the capability to crush aggregates on site, and would require a new Conditional Use Permit.

3. The Jefferson County market for aggregate sales has many producers selling rock in a moderate market area.

### Highest & Best Use

For the purposes of the subject mineral valuation, McLucas believes the highest and best use of the Penny Creek Mine site is the production and sale of its sand and gravel resources, and the final reversionary use of the property after the completion of mining and reclamation would be the subdivision of six 5-acre high quality/location lots for home sites.

Note: If the site is not mined, considerable property development would have to be performed to the site to obtain six 5-acre lots for home sites. The site starts at a 128' msl elevation, and inclines to a terrace at 165' msl, and then continues to climb to its highest elevation of 198' msl. This existing topography would only be conducive to four 7.5-acre home sites. The mining and reclamation of the site allows for the highest and best use of the mine site.

### **ASSUMPTIONS**

1. Glennda B. McLucas, licensed Washington Professional Geologist, and Stephen Taylor, Vice President Mineral Valuations of Mc Lucas and Associates, Inc., who prepared the subject mineral valuation, has based the above determinations and conclusions on standard scientific methodology and best professional judgment. In my opinion, the conclusions should agree with local, state, and federal regulatory agencies; however, this should be considered a preliminary jurisdictional determination and should be used at the mine owner's own risk until it has been reviewed and approved in writing by the appropriate regulatory agencies, most particularly, Jefferson County (owner), and Washington Department of Natural Resources, the surface mining regulatory agency.

2. The determinations, conclusions, assumptions, and limiting conditions within this opinion of value is based on conversations with Matt Stewart, Jefferson County Fleet Manager, and employees of the Washington Department of Natural Resources' Geology and Earth Resources Division's mining regulations. McLucas assumes that all this information is correct and current. All site dimensions and other legal information is assumed to be correct, as found through available records, or on-the-ground inspection.

3. The enclosed Statutory Warranty Deed outlines the transfer of title and interest from Carl Willrich, and Mavis Willrich to Jefferson County Department of Public Works, Order No. 320154.

4. McLucas has used reports that have been generated for the owners of the Penny Creek Mine, starting in the early 1970's to present day.

5. The information contained within this report, and facts observed during Stephen Taylor's physical examination of the property in 2014, in the company of Matt Stewart, is from sources considered to be reliable, but such information is in no sense guaranteed. Data supplied by the client has been checked, where possible, within the limitations of this investigation. To the best of McLucas' knowledge and belief, the statements and opinions contained within this report are supportable. If any errors are found, the right is reserved to modify the conclusions reached.

6. While various approaches to value, and various mathematical calculations have been used in estimating value, these are but aids to formation of the opinion of value expressed within this report. In these calculations, certain arithmetical figures are rounded to the nearest significant amount for the sake of clarity in arriving at the value.

7. The data and conclusions embodied in this valuation are a part of the whole valuation. No part of this valuation is to be used out of context, or by itself alone. No part of this valuation is necessarily correct, being only part of the evidence upon which the final judgment as to value is based.

8. McLucas assumes that there are no hidden or unapparent geologic conditions beneath the surface of the property that would render it less valuable. McLucas did conduct a subsurface investigation to assess the, quantity, and quality of site materials. McLucas estimation of reserves was conducted by utilizing Google Earth, which has provided us with an estimation of the reserves contained within the Penny Creek site. McLucas is not an engineering company, and offers our estimation as being reasonable, which should be verified by an engineering company. Jefferson County permit documents have been reviewed, and are assumed to be correct. Aggregate quality information was provided by Material Testing Corporation, and reviewed by McLucas & Associates, Inc.

9. Any maps, sketches, or photographs included within this report are presented for the sole purpose of illustration, and as an aid to metal visualization of the property. These illustrations are not necessarily drawn to scale, and should not be construed as surveying or engineering report.

10. No guarantee is made as to the accuracy of the estimates or opinions furnished by others, which have been used in arriving at the subject opinion of value. It is further assumed that the opinions, estimates, and data contained in this report are accurate.

11. McLucas and Associates, Inc., by reason of this valuation, is not required to give testimony, or provide attendance in court, or at any governmental hearing with reference to the property appraised, unless arrangements have been made in advance.

12. Neither all, nor any part of the contents of this report (especially any conclusions as to value, or McLucas' identity) will be disseminated to the public through advertising media, public relations media, news media, sales media, or any other public means of communication without the prior written consent approval of McLucas.

13. Unless otherwise stated within the valuation report, the existence of hazardous materials, which may or may not be present on the property, was not observed by McLucas, who has no knowledge of the existence of such materials on, or in the property. McLucas is not qualified to detect such substances, however. This type of material may affect the value of the property. The value estimate is predicated on the assumption that there is no such material on, or in the property that would cause a loss in value. No responsibility is assumed for any such conditions, or for any expertise or engineering knowledge required to discover them. The client is urged to retain an expert in this field, if desired.

14. Compensation for services provided the client, is dependent only upon delivery of this report.

15. The value found by McLucas is in no way contingent upon the compensation to be paid for mineral land valuation services. The purpose of this report is to estimate the fair market value of the property as of February 27, 2017, the date McLucas finished the report.

16. The Updated Opinion of Value, as set forth within this report, is based solely upon information available at, and prior to the date of valuation, February 27, 2018. No responsibility is assumed with respect to facts which may have developed subsequent to such date, and which might have a bearing on the opinion of value at the date noted, as expressed herein.

17. Acceptance of and/or use of this report by the client or any third party, constitutes acceptance of the above conditions. McLucas' liability extends on to the stated client, not subsequent parties or users, and is limited to the amount of the consulting fee received by McLucas.

### CERTIFICATION

I certify that to the best of my knowledge and belief that:

The statements of fact contained within this mineral valuation report are true and correct:

the reported analyses, opinions, and conclusions are limited only by the reported assumptions and limiting conditions, and are my personal, unbiased, professional analyses;

I have no present or prospective interest in the Penny Creek Pit property that is the subject of this report;

I have no personal interest, or bias with respect to the parties involved; my compensation is not contingent upon any action or event resulting from the analyses, opinions, or conclusions in this report;

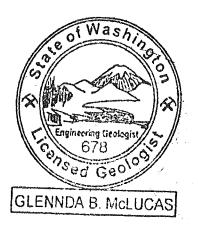
my analyses, opinions, and conclusions were developed in conformity with the requirements of the Code of Professional Ethics of the Washington State Board of Geologist Examiners, under which body I have been issued a license to operate as a professional geologist within Washington State;

I have made a personal inspection of the property that is the subject of this report.

<u>Bluncha</u> Mchicas Glennda McLucas, President, R.P.G.

McLucas and Associates, Inc.

Stephen Taylor, Vice President McLucas and Associates, Inc.



### PERMIT DATA

McLucas spoke with Matt Stewart, Manager of Fleet Services, Jefferson County to discuss any changes to the current permits. McLucas was informed that there had been no changes to the permits since the previous 2014 Mineral Valuation of the site.

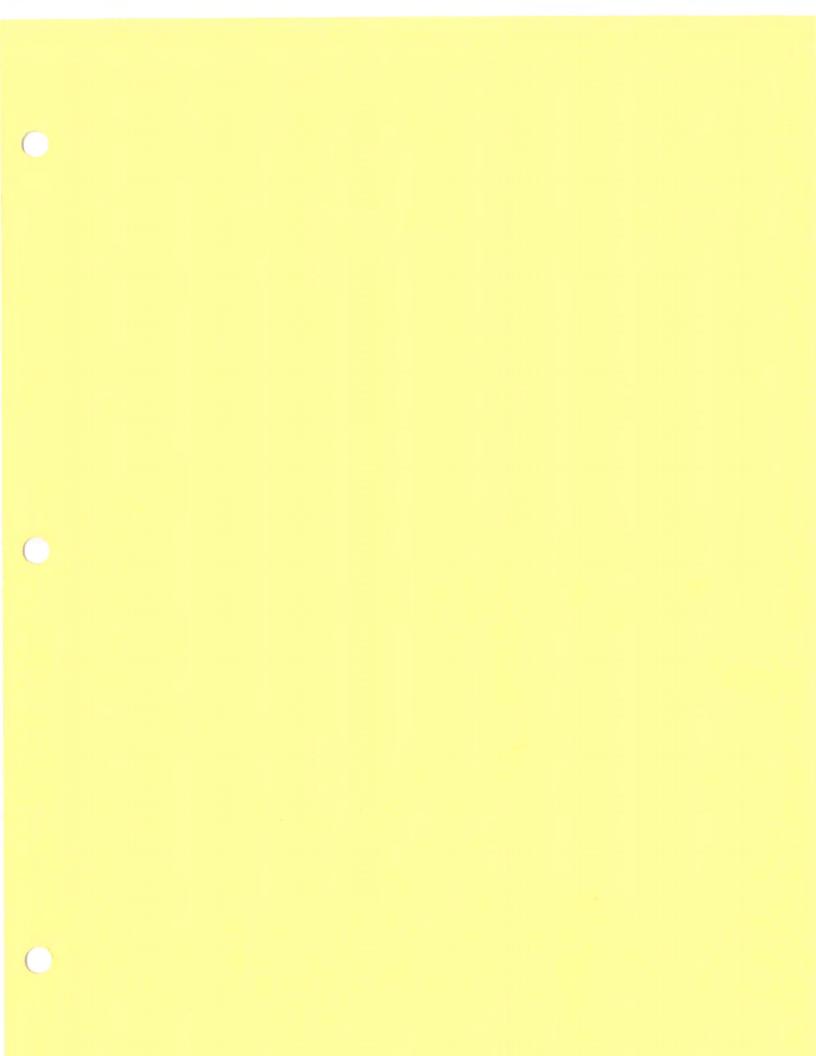
McLucas did obtain the latest WSDNR Inspection Report dated December 21, 2016. The DNR is requesting a new permit application from Jefferson County to include a new mapset. WSDNR has agreed to hold off on the permit update until the site is sold.

On November 11, 1972, Jefferson County, Washington issued a surface mining permit to Dutton – Willrich to operate the Penny Creek Pit mine site near Quilcene, Washington. At that time, Washington State Department of Reclamation issued a reclamation permit (10898) to Dutton – Willrich. This permit allowed Dutton- Willrich to mine aggregates with pit run borrow and the screening of aggregates.

The site was obtained, through a Statutory Warranty Deed, March 3, 1989, with Carl and Mavis Willrich, whereby Jefferson County Community Planning Department became the new owners of the Penny Creek Pit site. In October 1989 Jefferson County was issued a new reclamation and mining permits from the Washington State Department of Natural Resources. Since this time the mine has set idle, and used to store basalt bedrock.

McLucas has had conversations with Jefferson County and have included documentation emails to these facts, which are included for your review. In summary, Jefferson County will honor the existing historic permit which allows the current owner or new owner to mine the site selling borrow run material, and allow the site to screen the rock for aggregate sizes to sell in the open market. However, this permit does not allow for the site to crush, or wash aggregates on site. The County is open to the new owner in obtaining a new Conditional Use Permit to crush and wash aggregates, which would require a new SEPA application, WSDOE General Permit, and a Site Evaluation Report.

McLucas contact with the Washington State Department of Reclamation concerning the reclamation permit, states the site will require an updated reclamation permit to include a new SM-8, Narrative, New Mapping, and SEPA. This is fairly, straight forward and easily obtained.



360-456-8248 T 360-438-1881 F

On Tue 26/08/14 5:16 PM, Matt Stewart MStewart@co.jefferson.wa.us sent:

Steve, please see below. Let me know what follow-up questions you have.

Thank you, Matt

Matt Stewart Manager, Fleet Services Jefferson County PO Box 1200 371 Chimacum Rd Port Hadlock WA 98339 mstewart@co.jefferson.wa.us Office: 360-344-9713 Mobile: 360-301-9448

From: David W. Johnson Sent: Tuesday, August 26, 2014 15:13 To: Matt Stewart Cc: David W. Johnson Subject: RE: Permit Questions Jefferson County Penny Creek Pit

Matt,

See my answers below within the list of questions. My answers are based upon review of JCC 18.20.240

(1) Will the county allow for Crushing/screening of sand and gravel? Yes, with approval of a Type III Conditional Use permit – requires a pre-application conference.

(2) Will the county allow for aggregate washing on site? Yes, with an engineered stormwater

(3) Is there a set MSL elevation for the bottom of the pit area? To be determined under the required Site Evaluation Report (18.20.240(2)(h)(i)

(4) Will the standard DNR 50' setback from property line and a 2'-1' reclamation cut slope be

(5) Will Jefferson County be the lead agency in the SEPA review? Yes

(6) Will a DOE General Discharge Permit be required? Yes if require by that agency.

(7) Any other permit requirements? Not known - none anticipated at this time.





DEPARTMENT OF NATURAL RESOURCES

GEOLOGY AND EARTH RESOURCES DIVISION 1111 WASHINGTON ST SE MAIL STOP 47007 OLYMPIA, WA 98504-7007

**360-902-1450** FAX 360-902-1785 TRS 711 GEOLOGY@DNR.WA.GOV WWW.DNR.WA.GOV

JEFFERSON COUNTY PUBLIC WORKS 623 SHERIDAN ST PORT TOWNSEND, WA 98368-2439

# RE: INSPECTION REPORT FOR SURFACE MINE RECLAMATION PERMIT #70-010898 (PENNY CREEK)

Dear Permit Holder:

December 21, 2016

A review of your permit file and inspection on 12/20/2016 has been completed for the Department of Natural Resources (DNR) Surface Mine Reclamation Permit located in a portion of Section 23, Township 27 North, Range 02 West, W.M., Jefferson County, Washington.

Enclosed is the Inspection Report (Form SM-7A) for your Department of Natural Resources Surface Mine Reclamation Permit. Please review the report carefully to determine if any corrective actions are in order.

If you have any questions please feel free to contact me by calling 360-870-7805.

Sincerely,

Nicole Damer Surface Mine Reclamation Program Division of Geology and Earth Resources

Enclosures (2)

c: File #70-010898



WASHINGTON STATE DEPARTMENT OF

# Reclamation Permit No. 70-010898

Permit Holder: JEFFERSON COUNTY PUBLIC WORKS Mine name: PENNY CREEK County: Jefferson Latitude/Longitude: 47.8194, -122.9010

### Performance Security:

Current reclamation security: \$0.00 Total reclamation security required: \$0.00

### Inspection Checklist:

# SURFACE MINE RECLAMATION INSPECTION REPORT (Form SM-7A)

Report Date: Inspection Date:	12/21/2016 12/20/2016
Acres Permitted:	20
Acres Disturbed:	0.6
Acres Reclaimed:	1.58
Depth Permitted: (ft)	25
Depth Mined: (ft)	0
Annual Fee:	
Fees Owed: <b>\$0.00</b>	

Compliant with permit?	<u>No</u>	Boundaries/setbacks marked?	<u>No</u>	Mining within boundaries?	<u>No</u>
Signs of slope instability?	No	Segments need reclamation?	Yes	Topsoil conserved?	Yes
				,	<u> </u>

### Subsequent Use:

Forestry

# **Inspection Observations and Reclamation Status:**

Thank you Matt for meeting with me at the pit. The site was inactive during the inspection, with access restricted by a locked gate. The oversized material that had been present on the western side of the site has been removed and brought to a nearby site. The overburden that had been mixed in with it has been stockpiled onsite near the excavations; all of this is considered mining-related disturbance. During the last inspection in 2015, DNR and the County agreed that a Revised Reclamation Permit application submittal could be postponed until the site had sold because the site was considered reclaimed. Due to the increase in disturbed acreage, a Revised Reclamation Permit application is now required to be submitted to DNR within 60 days (by February 21, 2017) in order to bring the site back into compliance by providing a scalable map set and adequate reclamation plan. If additional time is needed, please submit a written request by February 21, 2017.

If you have questions about any of the items detailed in this inspection report, please call SMR representative Nicole Damer at 360-870-7805.



Aerial Photography Report



Permit Map Ares: Unitate to detertative - Filshahed Area: R.L. Pore: - Reclaimed Area: 1.58 Acres

# Permit # 70-010898

Jefferson County Public Works Penny Creek

> Inspected: 12/20/2016 by Nicole Damer

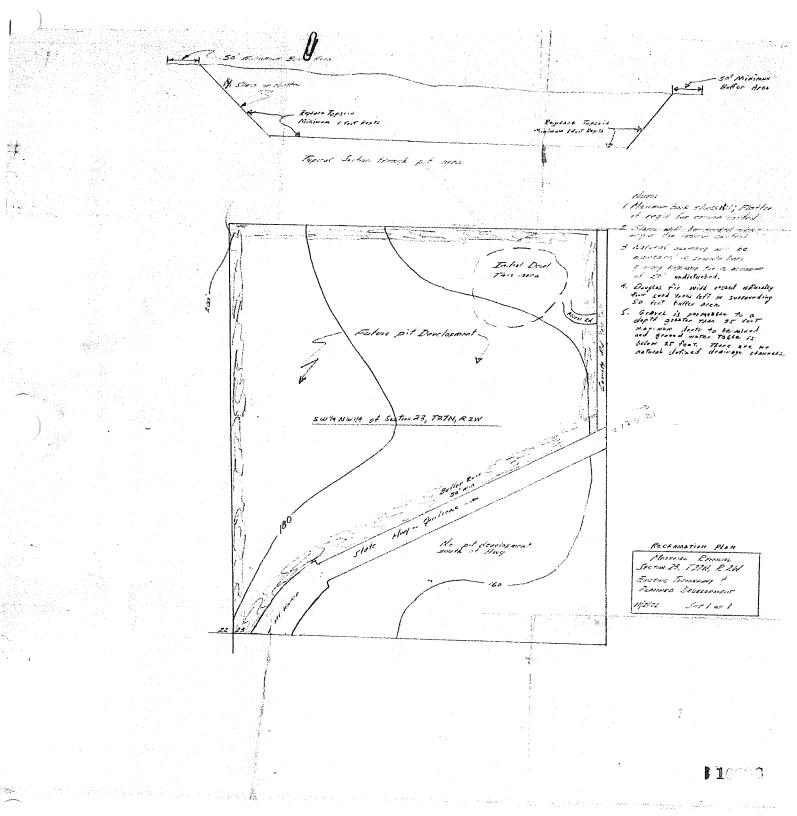


**Reclaimed Area** 

Permit Boundary

**GPS** Field Points





From:	Matt Stewart <mstewart@co.jefferson.wa.us></mstewart@co.jefferson.wa.us>	Sent: Thu 28/08/14 11:54 AM
	"mclucastaylor@qwestoffice.net" <mclucastaylor@qwestoffice.net></mclucastaylor@qwestoffice.net>	Priority: Normal

Subject: RE: FW: Permit Questions Jefferson County Penny Creek Pit

Steve, here is the answer from David W. Johnson of the county's DCD, who has been our representative on this project:

The mine could be re-activated to extract material without a conditional use permit as an allowed "yes" use. However, new accessory uses such as a rock crusher would require a conditional use permit. We would also require consistency with the performance and development standards under JCC 18.20.240 & 18.30.170, SEPA, a valid DNR mining permit and reclamation plan, and be responsible for complying with other state agencies' regulations.

Let me know if you have follow-up questions or concerns.

Thanks for the material test results yesterday. Looks much better!

Matt

From: Stephen Taylor [mailto:mclucastaylor@qwestoffice.net] Sent: Wednesday, August 27, 2014 9:13 To: Matt Stewart Subject: Re: FW: Permit Questions Jefferson County Penny Creek Pit

Matt,

The mining permit questions have been cleared up with the attached Jeffferson County Permit Requirements. The question I have is any consideration being given to the fact that the sight has already been permitted in 1972 and then transfered to Jefferson County in 1989 and approved for reclamation by WSDNR? It appears that Jefferson County is requiring a new county mining permit for the site. We know that WSDNR has requested and updated reclamation plan which is fairly straight forward. As it states with the attached County requirements a new Type III permit approval, Conditional Use Permit, SEPA, WSDOE General Permit, NPDES approval, Hydrogeologic Study, plus new mapping. These are all negatives in terms of selling the site for mineral extraction. There is no guarantee that Jefferson County will issue a mining permit as I see it. If this is the case then I will have to factor this into the discount process for the mineral valuation. Please advise. Note: I just got back the test results for the Penny Creek and Jefferson County pits. I will be sending them shortly. I expect to be done with the valuation in a couple of days.

Thanks,

Steve

Stephen Taylor McLucas & Associates, Inc. V.P. Marketing/Mineral Valuations P.O. Box 5352 Lacey, WA 98509

(2) Jeffers	ion (	County		
Weather Stat	ion 👌	Database Tools	Maps 🔍 🕻	🖉 Webcam
	Home	County Info	Departments	Search

# Cases Associated with Parcel No: 702232002

This may not be a complete listing of information that exists for this parcel. There may be other information pertinent to the property on file. Please contact the Department of Community Development for additional information.

Case Number	ZON14-00018
Description	CONDITONAL USE PERMIT - PENNY CREEK PIT Maintain defunct gravel mining pits as outdoor storage areas for stockpiling of road maintenance materials. This proposal requires a Type II Conditional Discretionary "C(d)" Use permit with public notice, but no public hearing, except at the discretion of the Administrator.
Last Name	JEFFERSON COUNTY PUBLIC WORKS
Received Date	6/12/2014 2:33:41 PM
No Images	
Case Number	PRE14-00003
Description	Permit Penny Creek gravel pit as an outdoor storage yard. Currently zoned RR 1-5.
ast Name	JEFFERSON COUNTY
Received Date No Images	2/5/2014 11:17:39 AM

Jefferson County

HOME | COUNTY INFO | DEPARTMENTS | SEARCH

Best viewed with Microsoft Internet Explorer 6.0 or later

# 18.20.240 Mineral extraction, mining, quarrying and reclamation.

(1) In addition to meeting all other applicable requirements of this code, including this section, all new mineral extraction and mineral processing activities located outside of an approved mineral resource land (MRL) overlay district designation (as specified in Article VI-C of Chapter <u>18.15</u> JCC) shall be subject to the following standards:

(a) New mineral extraction and mineral processing activities in rural residential districts shall require a conditional use permit subject to a Type III permit approval process.

(b) The total disturbed area of mineral extraction, mining and quarrying sites (excluding access roads) and any associated mineral processing activities shall not exceed 10 acres. Any proposed mineral extraction which would create disturbed areas in excess of 10 gross acres shall require an MRL designation in accordance with Article VI-C of Chapter <u>18.15</u> JCC.

(2) The following standards apply to all surface mining and reclamation activities:

(a) All surface extraction shall be performed in full compliance with the Washington State Surface Mining Act (Chapter 78.44 RCW). Other extraction must conform with all applicable Washington State laws.

(b) Applications for development permits for extraction shall be accompanied by a report prepared by a professional geologist which shall include at least the following information:

(i) Types of materials present on the site;

- (ii) Quantity and quality of each material;
- (iii) Lateral extent of deposit(s);
- (iv) Depth of deposit(s);
- (v) Depth of overburden; and
- (vi) Method of extraction.

(c) All extraction, surface mining, and reclamation operations must, to the extent possible, employ best management practices (see Chapter <u>18.30</u> JCC) for drainage and erosion and sedimentation control, buffer zones, and other precautionary measures as appropriate to protect adjoining lands, surface and groundwater quality and quantity, natural drainage systems, environmentally sensitive areas, wildlife habitat, and scenic resources from adverse impacts resulting from the extraction operations and to meet the standards of this code and other applicable county, state, and federal codes and regulations.

(d) Topsoil or other overburden having value for agriculture or other beneficial uses shall not be removed or disposed of in a manner which will reduce its value or prevent its future use.

(e) Spoils shall be placed outside of environmentally sensitive areas and shoreline areas. Final slope angle shall be no steeper than 1.5:1. Best management practices shall be employed for drainage and other controls so that: (i) spoils are properly drained and do not cause ponding; (ii) runoff water meets the requirements and standards of this code and other applicable county, state and federal codes and regulations; and (iii) mass soil movement is prevented.

(f) All extraction and reclamation activities that create a noise disturbance must take place between 7:00 a.m. and 7:00 p.m. on weekdays, unless extended hours of operation are authorized for emergency purposes by the administrator. No use shall be made of equipment or material which produces unreasonable vibration, noise, dust, smoke, odor, electrical interference to the detriment of adjoining property or the persons having the quiet use and enjoyment of that adjoining property.

(g) The alteration, intensification, and expansion of existing gravel pits and surface mining operations is allowed subject to reasonable performance standards to ensure that alteration, intensification, and expansion of such uses have minimal adverse impacts on surrounding areas and uses; and provided, that:

(i) If increased off-site impacts (noise, vibration, dust, traffic) would result from expansion, intensification, or modification, a conditional use permit shall be required.

(ii) Modification to include a new use or operation (e.g., a rock crusher) shall require a conditional use permit subject to a Type III permit approval process.

(h) The following performance standards are required for mining, quarrying and asphalt/concrete batch operations located within a designated susceptible aquifer recharge area or special aquifer recharge protection area. Mining, quarrying and asphalt/concrete batch operations in such areas must also comply with the best management practices identified in JCC <u>18.30.170</u> for those activities. Asphalt batch plants are prohibited in special aquifer recharge protection areas (JCC <u>18.15.250(1)(b))</u>.

(i) Mining, quarrying, cement concrete batch plants, and asphalt concrete batch plants located within a designated critical aquifer recharge area shall, prior to approval and operation, submit a site evaluation report to Jefferson County for review and approval. Prior to preparation of a site evaluation report, the applicant shall prepare and submit a scope of work for the report to Jefferson County for review and approval.

(ii) At a minimum, the site evaluation report shall contain the following elements: (A) permeability of the unsaturated zone, (B) location of nearby sensitive areas (wellhead protection areas, special protection areas, etc.), (C) groundwater depths and flow direction,

(D) location, construction, and use of existing wells within one-quarter mile of the subject site, (E) site map at one inch to 2,000 feet scale, (F) activity characterization, (G) proposed best management practices, and (H) a contingency plan. In addition, the following detailed information about the hydrogeologic characteristics of the site and a prediction of the behavior of a contaminant may be required: (A) background water quality compiled over at least a one-year period, (B) contaminant transport modeling based on potential releases to groundwater, (C) modeling of groundwater withdrawal effects, (D) geologic and hydrogeologic characteristics including, but not limited to, surface water on-site and with the subbasin or watershed that may have interactions with groundwater or surface contaminants, and (E) groundwater monitoring plan provisions.

(iii) Gravel mining and rock quarrying operations located within a designated critical aquifer recharge area shall, prior to approval and operation, obtain a National Pollutant Discharge Elimination System and State Waste Discharge Individual General Permit (NPDES) for process water, stormwater, and mine dewatering water discharges from the Washington State Department of Ecology, Water Quality Program.

(iv) Cement concrete batch plants, and asphalt concrete batch plants located within a designated critical aquifer recharge area shall, prior to approval and operation, obtain a National Pollutant Discharge Elimination System and State Waste Discharge Individual Permit from the Washington State Department of Ecology, Water Quality Program.

(v) Mining, quarrying, cement concrete batch plants, and asphalt concrete batch plants located within a designated critical aquifer recharge area shall demonstrate that the proposed activities shall not cause degradation of the groundwater quality below the standards described in Chapter 173-200 WAC (Water Quality Standards for Ground Water of the State of Washington).

(vi) Mining, quarrying, cement concrete batch plants, and asphalt concrete batch plants located within a designated critical aquifer recharge area shall, pursuant to JCC <u>18.30.170</u>(1), implement the Washington State Department of Ecology's Storm Water, Water Quality, Hazardous Waste, Wetland, and Solid Waste Program BMPs and relevant BMPs from the Departments of Health, Agriculture, Transportation, and State Conservation District Office or demonstrate through a best management practices report pursuant to JCC <u>18.30.170</u>(2), how they will integrate other necessary and appropriate mitigating measures on the design, installation, and management of the proposed facility or use.

(vii) Provide a written agreement to the county providing that all employees at mining, quarrying, cement concrete batch plants, or an asphalt batch plant site, will be notified that the operation lies above an aquifer recharge area and providing annual training regarding all measures set forth by the BMPs established in JCC  $\underline{18.30.170}$  (1).

(viii) Mining, quarrying, cement concrete batch plants, and asphalt concrete batch plants located within a designated critical recharge area shall at all times comply with Olympic Air Pollution Control Authority permit requirements.

(ix) Mining, quarrying, cement concrete batch plants, and asphalt concrete batch plant operations located within a designated critical area aquifer recharge area shall engage a third party, selection of which is approved in advance by the county, to monitor compliance with regulations and conditions pertaining to their NPDES/state waste discharge permit. Reports shall be prepared and distributed as required in the NPDES/state permit with copies to the county each month unless the permit requires quarterly reporting, in which case copies will be provided to the county quarterly.

(x) Mining, quarrying, cement concrete batch plants, and asphalt concrete batch plant operations located within a designated critical area aquifer recharge area shall submit an annual report to the county evaluating implementation of the Department of Natural Resources approved reclamation plan. A qualified, independent consultant approved by the county shall prepare the report. The report shall identify how restoration of the site compares to the approved reclamation plan and whether any corrective action is contemplated by the applicant or required by the Department of Natural Resources. [Ord. 8-06 § 1]

		STATE OF WASHINGTON DEPARTMENT OF NATURAL RESOURCES Olympia, WA 98504
Operator:	Jefferson County	
Address:	P.O. Box 1220	
	Port Townsend, WA 98368	

Pursuant to RCW 78.44 (Chapter 64, Laws of 1970) an <u>OPERATING</u> permit is hereby granted to the above-named operator to engage in surface mining on the property described in the application and material on file under this permit. The total area to be disturbed by surface mining, including the deposition of surface mining refuse, shall be in accordance with the reclamation plan filed with and approved by the Department of Natural Resources under this permit, and in accordance with conditions set forth in Exhibit "A" attached hereto and made a part hereof.

#### TERM

This permit shall be in effect from the date of issuance and shall remain in effect so long thereafter as the operator pays the annual basic fee of \$250.00 per site and the additional acreage fee if applicable, complies with the Surface-Mined Land Reclamation Act and the rules and regulations promulgated thereunder, complies with the reclamation plan, and maintains a performance bond as required by the Act.

### CHANGE OR MODIFICATION OF RECLAMATION PLAN

The operator shall obtain written approval from the Department prior to any change or departure from the approved reclamation plan. The reclamation plan may be modified as provided in RCW 78.44.100 at any time during the term of the permit after timely notice and opportunity for hearing.

### TRANSFER OF PERMITS

CUDEACE MINUNC DEDMIT

The transfer of this permit to another operator through sale, assignment, lease, or otherwise shall not be made unless approved in writing by the Department. A transfer shall not be approved unless the successor operator assumes all duties of the former operator to complete the reclamation of the land and the Department approves the successor operator's bond.

#### BONDS

A performance bond in the amount of

---NOT REQUIRED---

(\$\_\_\_\_\_\_) Dollars shall be submitted to and approved by the Department prior to commencement of surface mining. The operator may submit a cash deposit or an assignment of a savings account in the amount specified in lieu of a performance bond. The amount of the bond shall be subject to adjustment annually, based on the number of acres to be surface mined and the number of acres to be reclaimed.

### PENALTIES

.....

This permit may be suspended, cancelled, or revoked if the operator violates any of the applicable requirements set forth in the Act or the rules and regulations promulgated pursuant thereto, or if the operator fails to conduct his operations as specified in the approved reclamation plan.

The operator shall be guilty of a gross misdemeanor for conducting surface mining without a valid operating permit. Each day of operation without a valid operating permit constitutes a separate offense.

Issued this	lst	day of	November,1	19_	72
10511705					

(REVISED THIS 1ST DAY OF O	CTOBER, 1989)	
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BRIAN J. BOYLE, Commissioner	of Public Lands
Department of Natural Resources	
	0

William S. Lingley, Jr.: Regulatory Programs Manager Division of Geology and Earth Resources

Permit No. 10898

23 27

2 West

N.

11/84 (CHANGE OF OPERATOR)

Revised Operating Permit No. 10898

### EXHIBIT "A"

ADDITIONAL CONDITIONS OF THE PERMIT

(1) This Operating Permit applies to the following property: A 20 acre portion of the SW1/4, NW1/4, Section 23, Township 27 North, Range 2 West W.M., Jefferson County, Washington.

(2) All operations shall comply with the Maximum Environmental Noise Levels as set forth in RCW 70.107 and WAC 173-60.

(3) All operations shall comply with the Washington Clean Air Act as set forth in RCW 70.94 and WAC 173-400.

Noise and air pollution statutes are administered by the Washington State Department of Ecology. For clarification of these conditions, please call the Department of Ecology at 206-459-6000.

(4) A minimum 25 foot undisturbed setback from all other adjacent properties is to be maintained on all sides of the pit. Mining and related activities shall not occur within this setback, except as necessary to complete final reclamation.

By William S. Lingley, Jr.: Regulatory Programs Manager

Division of Geology and Earth Resources



AUG 1 1 1989

IC AREA

Permit Application

# FORM SM-8A

0:

# Standard Reclamation and Operating Plan

The Surface-Mined Lands Reclamation Act [RCW 78.44], as amended during 1987, requires that all mines exceeding the following thresholds shall have an approved reclamation and operating plan on file with the Department of Natural Resources:

(1) mine in which three acres of land (including highwalls, pit floors, stockpiled areas, sidecast areas, and processing-plant sites) have been disturbed by mining or related activities and/or,

(2) mines having working faces which are both higher than 30 feet and steeper than 1 horizontal to 1 vertical  $(45^{\circ})$ .

Lands which have been reclaimed to the standards given in RCW 78.44 should not be included when calculating the disturbed-area or face-height thresholds.

The Department encourages operators of smaller mines to submit a reclamation/operating plan in order to protect against excessive reclamation costs should operations expand in the future. The following form is intended as guide to assist the operator in preparation of a reclamation/operating plan which meets all requirements of the Act.

GENERAL INFORMATION GERORY MAR SALE RESOURCES

(1) Operator Jattanson Count (2) Operator's Address P.O. Box 1220 aunsena 98368 (3) Operator's Phone Nos. 206 - 385-9160 (4) Landowner allarson Counter (5) Landowner's Address R.O. Box 1220 Port Townsand (6) Landowner's Phone (<u>206</u>) <u>385</u>-(7) Name of Mine (8) Location of Mine  $\underline{SWY_4}$ Quarter of the <u>NWK4</u> \_\_\_\_quarter Section(s) 23Township 27N Range 2W nat Kanson Countv(ies) (9) Street Address of Mine Queleana Washington off 101

# Page 3

**,** ^

(5) Maximum Finished Slopes for Sand and Gravel Pits:	
<ul> <li>(a) Slopes in deposits which contain at least 50% clay will be reclaimed</li> <li>1.5 horizontal (H) to 1 vertical (V) [34*]</li> </ul>	to [] or
(b) Slopes which will be dressed with a minimum one-foot thick topsoil or clay cover will be reclaimed to 1.5H to 1V [34*]	[] or
(c) Other slopes will be reclaimed to 1.75 H to 1 V (30°) to facilitate natural revegetation	Xand/or.
<ul> <li>(6) Maximum Finished Slopes for Bedrock Quarries:</li> <li>(a) All bedrock working faces will be reclaimed with a bench no less that greater than 15 feet high continuously along the top of all cliffs in e feet high [for safety]</li> </ul>	excess of 30
(b) Highwalls benched to 10 feet wide by 30 feet high to enhance scene	ic values
<ul> <li>(c) Highwalls sloped to an average of 1 H to 1 V</li> <li>(d) No slope-reclamation will be undertaken because existing natural to at or adjacent to the proposed quarry constituties a safety hazard in area.</li> </ul>	or or pography ndigenous to the and/or
(7) Maximum Finished Slopes for mines reclaimed as lakes or <u>All</u> lake/pond bottoms will be sloped at 1.5 H to 1 V to a depth at least 2 feet <u>below</u> the <u>lowest water level</u> to assure egress for non-swimmers. (Operations using dredges should consider this requirement carefully while planning the mine)	ponds:
(8) Post-Mining Topography Should be Designed to Blend with Natural Topography:	ı Adj <b>acent</b>
(a) Contours will be arcuate when viewed in plan	🛛 and
<ul> <li>(b) Contours and profiles will be graded to avoid 90° angles, especially a section corners and/or property boundary corners</li> </ul>	
(c) Chutes and buttresses will be graded periodically along reclaimed wo	🗌 and Orking
faces (d) Restored contours will be graded to tie existing offsite natural contou	🗌 and
(9) Post-MiningWater Control (Note: even <u>minor</u> sedimentation water-pollution is prohibited by state and federal law. I protect the water and fishing resources):	and/or <u>minor</u> Please help
<ul> <li>(a) All water including water originating from rainfall, dust control, breached water tables etc. contained on site ?</li> <li>(Do not check this box if the deposit contains greater</li> </ul>	
than 50% clay)	e no
(C) Low topographic-relief areas stopad at approximately 22 linto	95 00 29
	ee no
SEP 1 4 1989	1
GEBLOGY AND EARTH MESOURCES	

### Page 4

(9) Post-Mining Water Control (continued):

- (d) Water wil be routed around newly disturbed slopes taht have clay contents exceeding 50% by installing tight-lines or armoured drainages yes \_\_\_\_\_
- (f) Lakes created by mining operations will be of sufficient size for recreation, wildlife, and residential purposes yes \_\_\_\_\_
- (g) All exposed coal beds covered with topsoil

(10) Landfill/backfill (Note: backfilling is generally an unacceptable reclamation technique and will be approved only in unique circumstances and only upon submission of a detailed operating plan. This plan should identify the source of fill, commit the operator to maintaining this fill source for reclamation only, and give evidence that backfilling is an economically reasonable method of reclamation for this mine.

(a) Noxious or combustible materials will not be placed in the mine

### (11) Revegetation

- (a) Natural revegetation (natural revegetation is acceptable for final reclaimed slopes of 1.75 H to 1 V and in some other cases).
- (b) Hydromulching
- (c) Grass
- (d) Noxious weed control planned

### PLAN OF OPERATIONS

(1) Area to be disturbed in next twelve months to nearest 0.5 acres:

(a) Access Road	OO acres
(b) Pit Floors and Highwalls	<u> </u>
(c) Spoil Banks/Overburden	ODecres
(d) Stockpiles	OQacres
(e) Total	<u>2.00</u> acres

(2) Probable total area to be disturbed during life of the mine (This cannot exceed the total permitted acreage given on Form SM-2) dc acres

- (3) Natural vegetative screening from residences/roads will be preserved ves.
  - yes <u>X</u> yes <u>X</u>

yes \_\_\_\_

Yes \_X

X C

α

- (4) No stock piling around the base of screening trees
- (5) Water Control during Mining
  - (a) All mining operations will be kept a minimum of 200 feet from rivers. lakes, and wetlands yes

ves \_\_\_\_\_ or....

GEBLOGY MAD GARTA BECOMBLES

	Page 5	
(5)	Water-Control (continued)	
	(b) If no, do you have appropriate County, Dept. of Ecology, and or Feder	al NPDES permi
	у	es
	(c) All water including water originating from rainfall, dust control, br	eached
	water tables etc. contained on site ? (Do not check this box if the de	posit
	contains greater than 50% clay) ve	s 🗙 🔐
	(d) Sedimentation Ponds capable catching the a 10 <sup>-</sup> -in-24-hour rain sto constructed immediately	
	(e) All runoff from the operation including minor drainage on the access	es 🔼
	the attached plan fouted into the sediment pond vi	65
	(f) Runoff routed around working faces to low elevation using tight lines	s and/or energy
	01882020000	es
(6)	Public Safety (describe appropriate measures to mitigate of public outside the mine during operations by checking t	he attached
	boxes and by attaching suitable plans on a separate she	et.
	(a) Plan of blasting to limit flyrock attached	п <sup>1</sup>
	(b) Blasting mats will be used	
	(c) Fencing il appropriate Note that fences should not be used for recla	mation 2
	(a) Fruck trailic control planned	•
	<ul><li>(e) Controlled access planned including posting of inter-visible signs</li><li>(f) Slope stability accessed</li></ul>	夏夏
	(g) Egress from ponds established	
		0
(7)	Topsoil stockpiled for future use and temporarily revegeta	ited in high
	wind areas ves	<u>X_ no</u>
	If no, why?	
- 1		
8)	Berms: Topsoil or overburdern stockpiled in such a fashion	n as to limit
	noise pollution and visual effects of mining ves	🗶 no
	If no why?	
		\
	Crushers, truck access routes, batch plants, and other noise	e-nroducina
9)	apparatus placed in such a position as to make use of nat graphy and screening in order to limit noise impacts out. While this is not a requirement under the Act, and may	tural topo- side of the p not be
9)	apparatus placed in such a position as to make use of part	tural topo- side of the p not be

. . .

SEP <u>1</u> a 1989

yes\_X\_\_no\_\_\_\_

GENLOGY AND EANTH RESURCES

### Page 6

# EXPLANATION OF MAPS AND CROSS-SECTIONS ACCOMPANYING THE **RECLAMATION AND OPERATING PLANS**

The following maps and sections are required in order document the preexisting geography, the proposed mining operations, and final reclamation of the site. For small mines, accurately hand-drawn maps on graph paper are acceptable. For larger proposals, an enlarged USGS 7  $1/_2$  minute topographic sheet or engineering drawings may be appropriate.

- (1) Map 1: A regional index map showing the mine in relation to adjacent towns and highways should be attached unless this information is shown on Map 2 below (we suggest photocopying a portion of a road map).
- (2) Map 2: A topographic map showing all of the following:
  - (a) Existing contours
  - (c) Access
  - (e) Boundaries of disturbed areas
  - (g) Railraods
  - (i) Utilities
  - (k) Names of adajcent surface owners
  - (m) Map scales and north arrow
- (b) Proposed contours upon final reclamation
- (d) Boundaries of mined property
- (f) Location and names of streams
- (h) Roads
- (i) Parks
- (1) Location of cross-sections
- (n) Setbacks from adjacent properties and utilities

(Note that most of these items are shown on USGS topographic sheets. Consequently, we recommend photocopying the relevant portion of a topographic sheet to use as a base-map for the reclamation plan)

- Sketch Maps showing the mine development as presently envisioned at (3) five year intervals. These sketch maps should indicate direction of mining on easch working face, position of noise generating equipment, water-controil measures, etc. (These sketch maps are unnecessary for mines less than ten acres).
- (4) Photographs may be attached to document pre-existing topography of mining activities (optional but it is generally it is in the operator's best interest to submit a photo).
- (5) Two intersecting cross-sections showing:
  - (a) Final reclaimed slopes
  - (c) Existing topography [dashed]
  - (e) Proposed vegetation
  - (g) Berms
  - (i) Water table if known
- (b) Setbacks
- (b) Setbacks (d) Minerals exposed at surface
- (h) Lakes/ponds.
- SEP 1 / 1989

GEOLOGY AND EARLY ASSUMPTION

# Page 7

### **SIGNATURES**

Signature of applicant: Date:

Signature of Landowner approving proposed subsequent use:

Date: Print Name of Landowner:

<u>laa</u>

# FOR DEPARTMENTAL USE ONLY

- (1) Are the facts accurately presented in the application and supplemental material?
- (2) Can reclamation be reasonably and economically be accomplished as specified?
   (3) Should a permit be issued?
- (4) Recommendations and comments:

SEP IN 1909

GEBLORY AND EAST'S RESOURCES

Page 8 Inspection Date: 9-8-89 District: Straits-P.T. Bond amount (No maximum per acre):\$\_\_\_\_\_N/A N/A yes Copy of Bond Calculation Form attached Signature Of Department of Natural Resources personnnel approving project: Michael R'Cronin Michael R Cronin Print Name of DNR personnel 9-7-89 Date: Area Approval Date

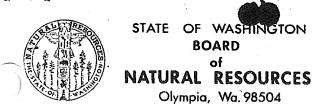


(10) Material(s) to be mined: (a) Gravel X (b) Sand X (c) Basalt (d) Silicate rock (e) Limestone (f) Building Stone (g) Other	<ul> <li>(12) Type(s) of Deposit(s)</li> <li>(a) Glacial</li> <li>(b) River Flood Plain  alluvi</li> <li>(c) River Channel Deposits</li> <li>(d) Talus</li> <li>(e) Bedrock</li> <li>(f) Unknown</li> <li>(g) Other</li> </ul>	0
(13) Total Production to Date:	Un Knoway tons or	yds.
(14) Estimated Annual Future	Production: tons or .	yds.
Unknown 🗶 (Do not check this Counties)	datum (i.e. sea level) or box in Spokane, Island, San Juan or Walla <u>CLAMATION PLAN</u>	Walla
the proposed subsequer	<u>SM-6 attached</u> proves that both it use of this mine site have been by Jofferson Co (3) Post-Reclamation Topogr	annroved by
(2) Subsequent Land Use:	(3) Post-Reclamation Topog	raphy
(a) IndustrialImage: Constraint of the second s	<ul><li>(a) Less than 10 % Grade</li><li>(b) Low rolling hills</li></ul>	ENDAY AND LATIN RESUMES

(4) Minimum setbacks to be maintained continuously along boundaries with adjacent properties not owned or leased by the permittee:

(a) Sand & Gravel Pits

i. 25 feet for highwalls less than 50 feet high	Xor
ii. 50 feet for highwalls greater than 50 feet	U
(b) Bedrock Quarries	
i. Setbacks as above	🛛 or
ii An undisturbed 10 feet together with a 15 foot wide x 15 foot high	
bench at the top of working faces steeper than adjacent 1H to 1V	
(c) Written explanation for request for variance from setback	
requirements attached	



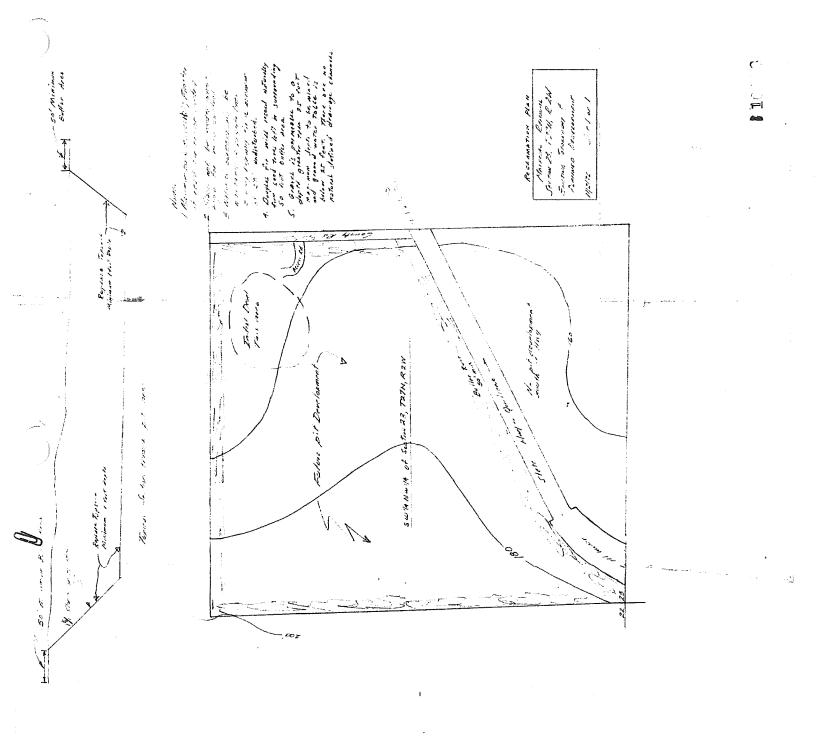


SURFACE A

E MINING

TO BE COMPLETED BY APPLICANT APPLICANT (TYPE OR PRINT) DESCRIPTION OF SITE DUTTON - WILLEICH SH 1/2, NIN 1/4 Approximately 25 Acres ADDRESS FO. BOK 677 OLYMPIA, WASH. SEC RGE COUNTY OE 23 5  $27_{\rm N}$ Z Ø₩. DISTANCE DIRECTION FROM NEAREST COMMUNITY Quilcene SA TELEPHONE NO .: 943-7630 2 INDICATE PROPOSED SUBSEQUENT USE OF SITE UPON COMPLETION OF RECLAMATION residental Tracts Foirst Land and/or SIGNATURE (APPLICANT'S) TITLE DATE 11/3/72-Hopiscant. June Some and Greek TO BE COMPLETED BY **APPROPRIATE** COUNTY MUNICIPALITY OR TO: SUBJECT: BOARD OF NATURAL RESOURCES RECOMMENDATIONS ON SURFACE MINING PERMIT APPLICATION FOR A NEW OPERATOR COMMENCING OPERATIONS Yes No 1. Is the proposed subsequent use legal under current local zoning regulations? Does the applicant have an appropriate permit to conduct surface mining if required by local regulations? (Pleose attach a copy of the permit, written order or ordinance) 2. З. Recommendations and comments: entry ADDRESS. SIGNATURE (PLANNING DIRECTOR OR ADMINISTRATIVE OFFICIAL) ouse Inte auditor Brensend, 11)a. TELEPHONE NO .: DATE Chapter 64, Laws of 1970, 1st Ex. Sess., requires evidence that the proposed subsequent use would not be illegal under NOTE: PERMIT NO. local zoning regulations. 10898 SM-6 Revised 5-9-72 Copy Distribution: White - Olympia, Yellow - District, Pink - Operator, Blue - County or Municipality

**APPLICATION** FOR STATE OF WASHINGTON **OPERATING** PERMIT BOARD of NATURAL RESOURCES SURFACE MINING Olympia, Wa 98501 P.O. Box 168 (SEE INSTRUCTIONS BELOW) SIZE AND LEGAL DESCRIPTION NAME OF APPLICANT (TYPE OR PRINT) T. S. T.M. M. C. La. M. 5W 1/4, NN 1/4 PERMANENT ADDRESS (INCLUDE 'ZIP') Approlimately 25 Acres P.O. Bex 677 OLIMPIA WASH. COUNTY SEC 23 27 N 2 OW WM VEFFECSON TELEPHONE NO. 943-7630 TEMPORARY ADDRESS (INCLUDE 'ZIP') DIRECTION FROM INEAREST COMMUNITY DISTANCE 5W QUILCENE  $\mathcal{Z}$ TYPE OF OVERBURDEN APPROX. MAX. DEPTH OF OVERBURDEN SANDY 6 MATERIAL TO BE MINED OR REMOVED QUANTITY (TONS OR YARDS) OVERBURDEN MINERAL TELEPHONE NO. GEAVEL OWNERSHIP: Surface of land to be surface mined (show names and 500 000 ULTAMAT STOCEPILE addresses) James D. Dutton & Carl A. Willrich ESTIMATED TOTAL ACRES TO BE SURFACE MINED ESTIMATED NUMBER OF ACRES TO BE MINED IN FIRST YEAR 4 20 METHOD OF MINING EST. MAX. DEPTH TO BE SURFACE MINED 25 SURFACE COF PURPOSE FOR WHICH THIS LAND IS TO BE USED AFTER MINING IIMBERGAND OWNERSHIP: Mineral Rights (show names and addresses) Do you or ony person, partnership, or corporation associated with you now hold, or hove ever held, on operating permit? Yes 1 No V Same If the answer to the obove is yes, please list. Reclamation Active Complete Or Permit No. Operation Current No Yes No 10708 es 10734 No Yes Have you had an operating permit or bond revaked or forfeited? V INSTRUCTIONS If yes, give permit number and location of site. This application must be accompanied by the fee, a reclamation plan and a plan of surface mining. Attach a statement (ar farm) from the appropriate zoning agency showing that the proposed subsequent use of the property is a legal use under present zoning classification. 2. Maps must be submitted with each opplication to the following scales. Contour intervals shall not be mare than 5 feet. Variations are permitted з. subject to approval. DESIGNATE NUMBER OF SITES COVERED BY THIS A BASIC FEE OF \$25 PER SITE IS HEREWITH Area of Site Not Less Than APPLICATION: ATTACHED 0-5 Acres 1"=50' SIGNATURE DATE 1"-100' 1"=200' 5-10 Acres Over 10 Acres FOR DEPARTMENT USE ONLY 10] 3/ DATE ACCEPTED BY DEPARTMENT: ACCEPTED BY: TITLE FRMIT NO Auntiant Copy Distribution: White - Olympia, Yellow - District, Pink - Applicant



.

R. COUNTY '? MUNICIPALITY STATE OF WASHINGTON RECOMMENDATIONS BOARD - - - - of NATURAL RESOURCES  $\Gamma$ Olympia, Wa. 98504 SURFACE 1991 MINING APPLICANT BE COMPLETED BY TO APPLICANT (TYPE OR PRINT) DESCRIPTION OF SITE SHI'LS, NIN 1/4 DUTTON - WILLEICH Approximately 25 Acres ADDRESS PO. BOX 677 OLYMPIA WASH. **PGE** SEC COUNTY Ô٤ よう  $27_{\rm N}$ Qw JJ DIRECTION FROM NEAREST COMMUNITY DISTANCE Quilcene Z TELEPHONE NO .: 243-7630 INDICATE PROPOSED SUBSEQUENT USE OF SITE UPON COMPLETION OF PECLANIATION residental Tracks Forest Land and/or TITLE DATE SIGNATURE (APPLICANT'S) 11/3/72 Applican ? COUNTY OR MUNICIPALITY BE COMPLETED BY APPROPRIATE τO 10 BOARD OF NATURAL RESOURCES RECOMMENDATIONS ON SURFACE MINING PERMIT APPLICATION FOR A NEW OPERATOR COMMENCING OPERATIONS SUBJECT-Yes No Is the proposed subsequent use legal under current local zoning regulations? 1. Does the applicant have an appropriate permit to conduct surface mining if required by local regulations? (Please attach a copy of the permit, written order or ordinance) 2. ۰. Recommendations and comments: no menung SIGNATURE (PLANNING DIRECTOR OR ADMINISTRATIVE OFFICIAL) ADDRESS Milliden 20. Furthouse -- c nulli -city support (1)a. unter cultor = Chillippe 12 18362 DATE TELEPHONE NO .: 785.2161 PERMIT NO. NOTE: Chapter 64, Laws of 1970, 1st Ex. Sess., requires evidence that the proposed subsequent use would not be illegal under 10898 local zoning regulations.

Permit/ Permit Application No.

### FORM SM-8A

# Standard Reclamation and Operating Plan

The Surface-Mined Lands Reclamation Act [RCW 78.44], as amended during 1987, requires that all mines exceeding the following thresholds shall have an approved reclamation and operating plan on file with the Department of Natural Resources:

(1) mine in which three acres of land (including highwalls, pit floors, stockpiled areas, sidecast areas, and processing-plant sites) have been disturbed by mining or related activities and/or,

(2) mines having working faces which are both higher than 30 feet and steeper than I horizontal to 1 vertical (45°).

Lands which have been reclaimed to the standards given in RCW 78.44 should not be included when calculating the disturbed-area or face-height thresholds.

The Department encourages operators of smaller mines to submit a reclamation/operating plan in order to protect against excessive reclamation costs should operations expand in the future. The following form is intended as guide to assist the operator in preparation of a reclamation/operating plan which meets all requirements of the Act.

# GENERAL INFORMATION

(1) Operator Jaffanson Counte (2) Operator's Address P.O. Box 1220 98368 (3) Operator's Phone Nos. 206 - 385-9160 (4) Landowner Sattarson Caunt (5) Landowner's Address P.O. Box 1220 Port Townsand (6) Landowner's Phone (<u>206</u>) 385-9160 (7) Name of Mine \_ Quarter of the NW Ky (8) Location of Mine \_ SWY4 \_quarter Township 271 Range 2W Section(s) \_\_\_\_ County(ies) cia ff (9) Street Address of Mine \_\_\_\_\_uclea 101



WASHINGTON STATE DEPARTMENT OF Natural Resources

> BRIAN BOYLE Commissioner of Public Lands

> > Olympic Region Office Route 1, Box 1375 Forks, WA 98331

July 11, 1989

Carl A. Wilrich 1824 Lakehurst Drive Olympia, WA 98501

### Subject: Surface Mining Permit #70-010898

In order to transfer your surface mining permit, we will need the following:

- Signatures, on this form, from both parties acknowledging the transfer 1) of the permit.
- A statement from the proposed permittee accepting the current plan of 2) operations and reclamation plan on file. (If changes are desired, new plans will need to be submitted and are subject to review and approval prior to the transfer of the permit.
- 3) Completion of the enclosed SM8a.

Until these requirements are satisfied, the permit is still in ownership of the existing permittee and therefore the permittee's liability.

CURRENT PERMIT HOLDER

HOLDER

Sincerely,

- Lucker

Jodi Luedecker Clerk Typist 3 John M. Calhoun For: Regional Manager Olympic Region

Enclosure



Permit/ Permit Application

### FORM SM-8A

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CURRENT PERMIT HOLDER

W PERMIT HOLDER

14/89

DATE

Sincerely,

- Lucker

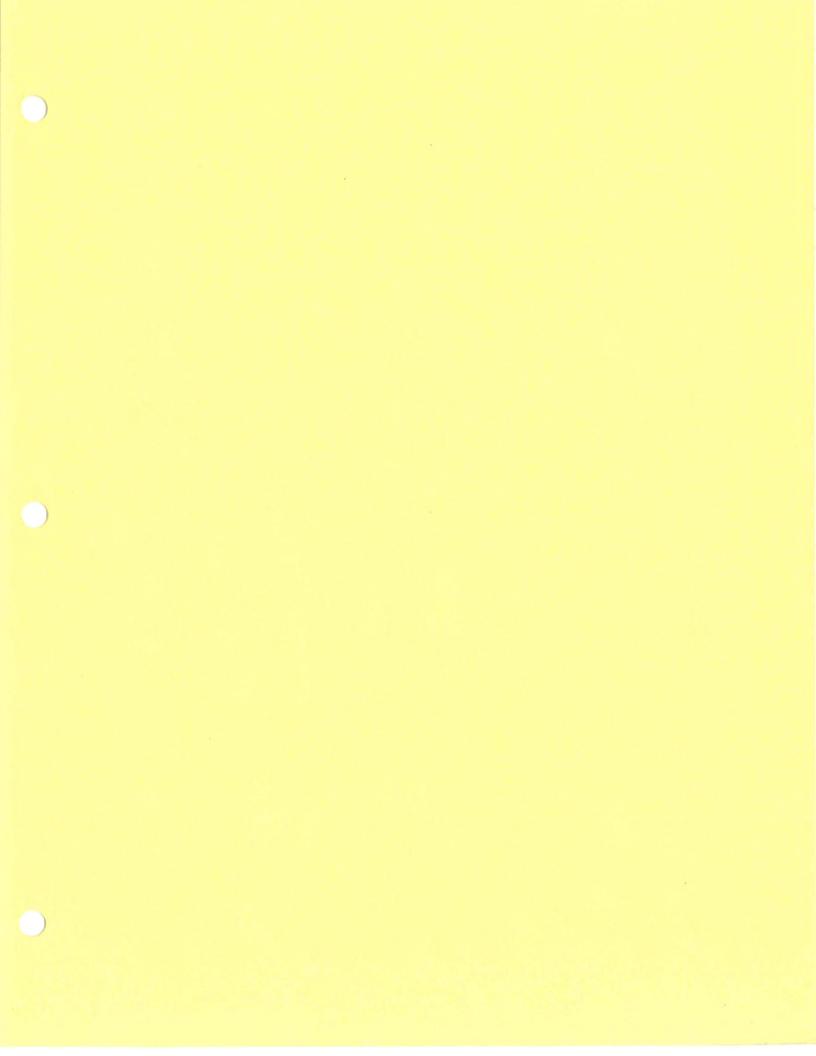
Jodi Luedecker Clerk Typist 3 For: John M. Calhoun Regional Manager Olympic Region

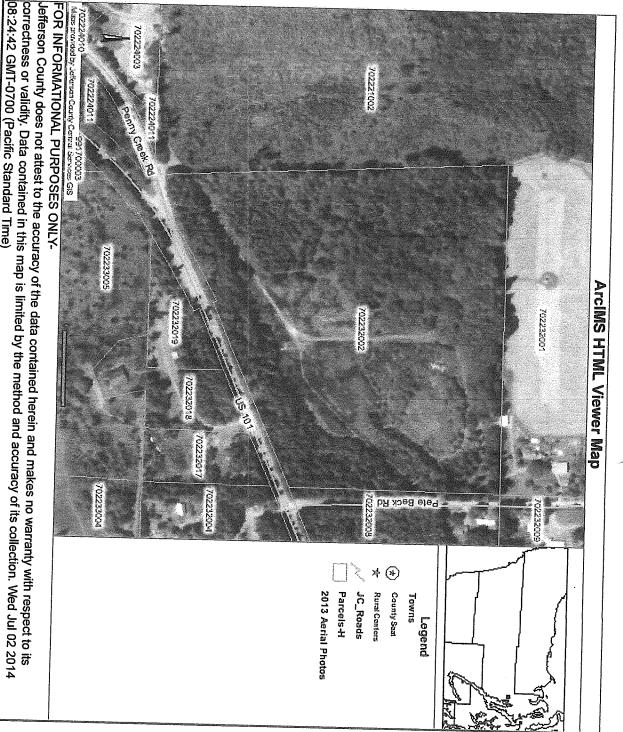
Enclosure



# **TITLE REPORTS**

We have included the Statutory Warranty Deed, transferring the property from Carl and Mavis Willrich to Jefferson County Department of Public Works, February 22, 1989. McLucas has also included the Jefferson County Assessor & Treasurer property details indicating that the property taxes are paid and the property if free and clear of all liens. These documents are included for your review.

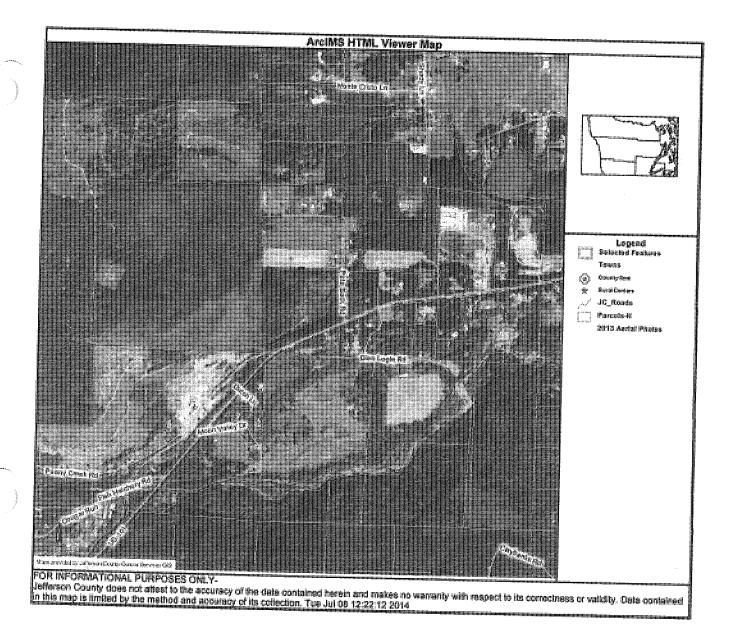




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# Jefferson County Assessor & Treasurer

# 18369 JEFFERSON COUNTY for Year 2013 - 2014

#### Property

<b>D</b>								
Property ID: Parcel Number:	18369						Legal Description	n: S23 T27 R2W SY NW LESS R/W LESS PTN S OF S HWY
Type:	70223	32002					Agent Code:	
Tax Area:	Real	1 4053113 051 1-	-					
Open Space:	0324 - N	- 1-48F2H2C2L1Z	3				Land Use Code	01
Historic Property:	N						DFL	N
Multi-Family Redevelopm							Remodel Propert	y: N
Township:							<b>C</b> = -11	
Range:							Section:	
Location								
Address:				· · · · · · · · · · · · · · · · · · ·			Mapsco:	
Neighborhood:	S23 T2	7N R2W & TRAN	QUILCENE	& ANDERSC	N S.P. & JON	ES S.P.	Map ID:	
Neighborhood CD:	2560						•	
Owner								
Name:	JEFFER	SON COUNTY		······			Owner ID:	18998
Mailing Address:	COURT						% Ownership:	100.0000000000
	PO BO) PORT T	( 1220 OWNSEND, WA	09269 0020	-				200.0000000000000
		-,		5				
exes and Assessment	Details						Exemptions:	EX
Property Tax Information as of 07,	/08/2014						Exemptions:	EX
	/08/2014 <u>NOTE</u> : If yo	ou plan to submit pays you enter the date an nt due.	nent on a futur d click RECALC	e date, ULATE to obtai	n the correct		Exemptions:	EX
Property Tax Information as of 07,	//08/2014 <u>NOTE</u> : If yo make sure total amou	you enter the date an nt due.	nent on a futur Id click RECALC	re date, ULATE to obtain	n the correct		Exemptions:	EX
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		Land Type:1371			0.00	0.00	\$37,500	\$0
2	1875	Land Type:1875	28.4000	0.00	0.00	0.00	\$85,200	ć0

#### **Roll Value History**

Year	Improvements	Land Market	Current Use	Total Appraised	Toyoble Velue
2014	N/A	N/A	N/A	N/A	
2013	\$0	\$122,700	\$0	\$122.700	iv/A ¢0
2012	\$0	\$122,700	\$0	\$122,700	\$0 \$0

#### **Deed and Sales History**

**Payout Agreement** 



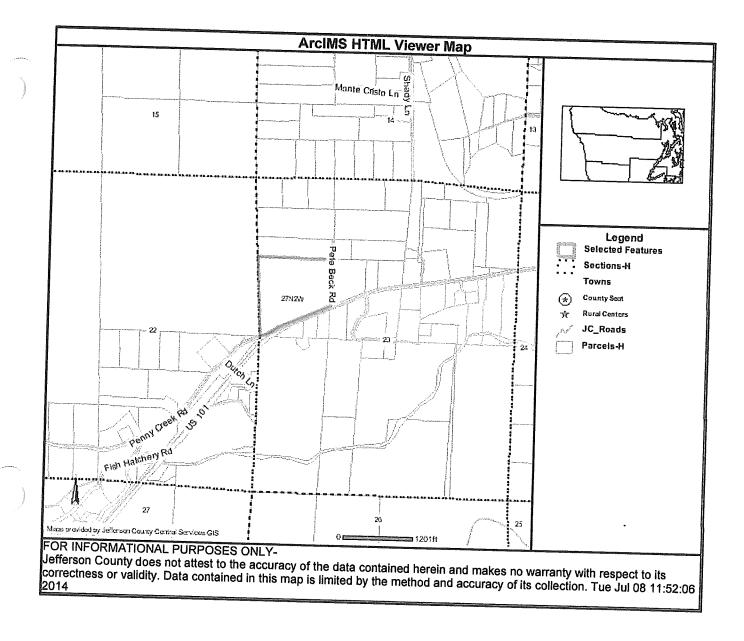
This website is under active development. Some functionality is not yet available and data is not guaranteed.

Assessor Home Page Treasurer Home Page County Maps Disclaimer

Website version: 9.0.32.2200

Database last updated on: 7/8/2014 4:13 AM

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# Parcel Number: 702232002

06/19/2014

Owner Mailing Address: JEFFERSON COUNTY COURTHOUSE PO BOX 1220

PORT TOWNSEND WA 98368-0920

### Site Address:

98368-0920

Section:	23	School District:	Quilcene (48)
Qtr Section:	NW1/4	Fire Dist:	Quilcene (2)
Township:	27N	Tax Status:	COUNTY
Range:	2W	Tax Code:	0324
Planning area:	98368-0920		004-1

98368-0920

Sub Division: Land Use Code:

Property Description: S23 T27 R2W SW NW LESS R/W LESS PTN S OF ST HWY

9700

FILED FOR RECORD AT REQUEST OF

HIS SPACE PROVIDED FOR RECORDER'S USE: Storoon County Fublic Wurks 福日-3 四日:17 320154 moulo

WHEN RECORDED RETURN TO

Name Jefferson County Department of Public Works

Address P.O. Box 1220

Cily, State, zip Port Townsend, WA 98368

#### Statutory Wari Jnty Deed

THE GRANTOR Carl A. Willrich and Mavis Y. Willrich, husband and wife.

for and in consideration of Ten Dollars and other valuable considerations

in hand paid, conveys and warrants to County of Jefferson

the following described real estate, aituated in the County of Jefferson .State of Washington:

The Southwest quarter of the Northwest quarter of Section 23, Township 27 North, Range 2 West, W.M. EXCEPT 30' wide strip along the East side of a portion thereof conveyed to Jefferson County by deed dated February 3, 1930 and recorded in volume 98 of Deeds on page 171, and EXCEPT portion conveyed to the State of Washington for State Highway by deed dated April 24, 1935 and recorded under Auditior's File No. 74051, and EXCEPT 60' wide strip of land conveyed to Jefferson County for county road (old state highway) by instrument recorded May 10, 1909 in Volume 1 of Road Waivers on page 4a records of Jefferson County.

EXCEPTING there from that portion of premise lying southeasterly margin of State Road No. 9

IEFFERSON COUNTY EXCLOSE TAX

STATE OF WASHINGTON COUNTY OF Thurston

On this day personally appeared before me CaRL a.d. Marvis V.W.Hritzto me known to be the individual described in and who executed the within and foregoing instrument, and acknowledged that Methods are as a more as <math>Methods are and the sameas <math>Methods are and voluntary act and deed,for the uses and purposed therein mentioned.

MRES C. .... 12. are

Notary Public in and for the State of Weahington, residing at Charge and the state of Weah-

#### STATE OF WASHINGTON

COUNTY OF

and...... to me known to be the ......President and......Secretary,

respectively, of...... the corporation that executed the foregoing instrument, and acknowledged the said instrument to be the free and voluntary act and deed of said corporation, for the uses and purposes therein mentioned, and on oath stated that authorized to around the said instrument and about and be

affixed is the corporate seal of said corporation.

Witness my hand and official seal hereto affixed the day and year first above written.

Notary Public in and for the State of Washington, residing at.....

MY COMMISSION EXPIRES 2374 4

68.

FILED FOR RECORD AT REQUEST OF

	THIS BPACE PROVIDED FOR RECORDER'S USE
320154	Dependent of Public Works 20 HAR - 3 PM 1: 17
	B Amoulo assure
t of Public Works	

WHEN RECORDED RETURN TO Name Jefferson County Department of P

Address P.O. Box 1220

City, State, Zip. Port Townsend, WA 98368

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The Southwest quarter of the Northwest quarter of Section 23, Township 27 North, Range 2 West, W.M. EXCEPT 30' wide strip along the East side of a portion thereof conveyed to Jefferson County by deed dated February 3, 1930 and recorded in volume 98 of Deeds on page 171, and EXCEPT portion conveyed to the State of Washington for State Highway by deed dated April 24, 1935 and recorded under Auditior's File No. 74051, and EXCEPT 60' wide strip of land conveyed to Jefferson County for county road (old state highway) by instrument recorded May 10, 1909 in Volume 1 of Road Waivers on page 4a records of Jefferson County.

EXCEPTING there from that portion of premise lying southeasterly margin of State Road No. 9

IEFFERSON COUNTY EXCLOSE TAX 6群. 图0.

88

MY COMMISSION EXPRES

STATE OF WASHINGTON COUNTY OF Thurston

On this day personally appeared before me Carlad Marvis Y. Willrid to me known to be the individual described in and who executed the within and foregoing instrument, and acknowledged that They signed the came for the uses and purposes therein mentioned.

NIRES C GIVEN under my hand official coal this dd day of 

Notary Public in and for the State of Washington, residing at Olyph post

#### STATE OF WASHINGTON

40

COUNTY OF	<b>23.</b>
On this day of before me, the undersigned, a Notary Pu ington, duly commissioned and sworn, per	blic in and for the State of Wash- reonally appeared
and	
to me known to be thePres- respectively, of	eldent and
	ion.
Witness my hand and official seal her above written.	eto affixed the day and year first

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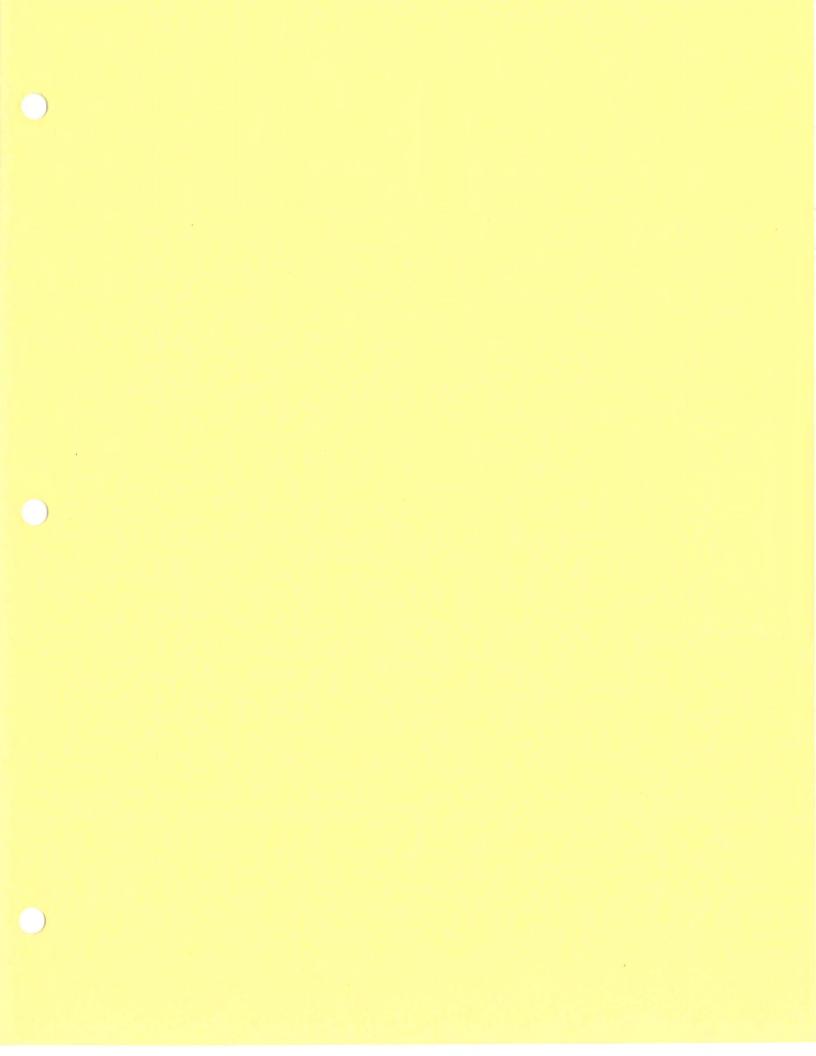
Notary Public in and for the State of Washington, realding at....

# APPENDICES

(1) Jefferson County Profile

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(2) Sand & Gravel Producers



ALERTS (5)

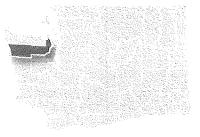
(http://www.facebook.com/WashingtonESD) (http://twitter.com/@ESDwaWorks) (
 (http://washingtonesd.wordpress.com/)**Español (../../../espanol) LABOR MARKET INFO** (http://www.facebook.com/Empleos

# **QUICK LINKS**

# Jefferson County profile

by Jim Vleming, regional labor economist - *updated November* 2016

Overview | Geographic facts | Outlook | Labor force and unemployment | Industry employment | Wages and income | Population | Useful links



### Overview

# Regional context

Jefferson County is located on the Olympic Peninsula in northwestern Washington state. Jefferson County is nestled between the Admiralty Inlet and Clallam, Mason, Grays Harbor and Kitsap counties. It faces the Pacific Ocean to the west and Hood Canal to the east. Named for President Thomas Jefferson, it was created in 1852 from a portion of Lewis County. The county seat is Port Townsend.

Much of the county is publicly owned land. About 60 percent of the county comprises the Olympic National Park and Olympic National Forest and roughly 20 percent is under the jurisdiction of federal and state agencies. The Hoh Reservation and a small corner of the Quinault Reservation are also located in Jefferson County.

Jefferson County is a mid-sized county, ranking 18th in the state in land area. Its population density, as measured by persons per square mile, ranks 29th among the other counties.

# Local economy

Jefferson County's current economic base grew from a rich history of natural resources extraction in logging and fishing in the late 1880s. By the turn of the 20th century, sawmills, fish processing and shipbuilding were firmly established in the coastal areas of the county. The county also was known for smuggling spirits from Canada in and out of county's many hidden coves and forests during prohibition. Port Townsend, the economic center of the county, has experienced periods of boom and bust over the century due to its dependency on these volatile industries. During 2011, Port Townsend finally started to recover from the Great Recession with visible signs of economic growth including new shops, new investments and rebounds in tourism. Annual taxable sales in the county have grown strongly since 2013.

The economy of Jefferson County is comprised of both an industrial and an agricultural base. Industrially, the county's history, climate and terrain support healthy forest products and maritime sectors, including lumber, fish processing, ship repair and maintenance as well as ship and boatbuilding. The agricultural base encompasses tree farms for logging, aquaculture and a flourishing organic farming sector. Food production, stemming from this growing agricultural segment, includes artisan cheeses and breads. Tourism also provides revenue streams to the county. Economic activity is supported by a vibrant port and airport, ferry terminal and state highways.

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### **Geographic facts**

(Source: U.S. Census Bureau QuickFacts)

	Jefferson County	Rank in state
Land area, 2010 (square miles)	1,803.7	18
Persons per square mile, 2010	16.6	29

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### Outlook

The outlook for Jefferson County for the remainder of 2016 and into 2017 is one of growth, but it is likely to be modest at best. While the goods-producing sector has shown some growth during 2016, the service-providing sector seems to be treading water. In 2016 the construction, manufacturing and trade sectors showed modest gains as government remained steady.

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# Labor force and unemployment

(Source: Employment Security Department)

Current labor force and unemployment statistics are available on the Labor area summaries page (../../../labormarketinfo/labor-area-summaries).



The preliminary September 2016 figure for the civilian labor force was 11,194, more than the September 2015 level of 10,898. This increase indicates a reversal of years past where the labor force was shrinking. With new confidence and new opportunities presenting themselves, it appears that a return to an expanding labor force has begun.

The September 2016 figures show an unemployment rate of 7.3 percent compared to 6.4 percent in September 2015. This over the year increase in unemployment is due to more folks in the labor force looking for fewer jobs. The current annual average for 2016 puts the rate above 2015's but below the 2008 pre-recession rate.

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# **Industry employment**

(Source: Employment Security Department)

Current industry employment statistics are available on the Labor area summaries page (../../../labormarketinfo/labor-area-summaries).

In Jefferson County the nonfarm sector has still not rebounded from the sharp losses resulting from the Great Recession. In 2006, total nonfarm jobs within the county totaled approximately 9,680. A sharp drop to 8,550 occurred in 2009 and continued through 2013. Nonfarm employment in 2015 was 8,170. Nonfarm jobs have averaged 8,310 during the first nine months of 2016.

- The goods-producing sector was up 80 jobs year-over-year ending in September 2016, with construction showing a 90 job increase. Manufacturing showed a decline of 10 jobs.
- The service-providing sector gained 90 jobs from September 2015 to September 2016. Trade, transportation and utilities, leisure and hospitality and government all showed gains over this time period.

For historical industry employment data, contact an economist (../../../labormarketinfo/economists).

# Industry employment by age and gender

(Source: The Local Employment Dynamics)

The Local Employment Dynamics (LED) database, a joint project of state employment departments and the U.S. Census Bureau, matches state employment data with federal administrative data. Among the products is industry employment by age and gender. All workers covered by state unemployment insurance data are included; federal workers and non-covered workers, such as the self-employed, are not. Data are presented by place of work, not place of residence. Some highlights:

The population of Jefferson County is older than that of the state, which is also reflected in the labor force figures. Over 31.9 percent of the workforce was age 55 or older in 2015.

 Those aged 55 and older dominated the utilities, educational services and transportation services jobs, while younger workers (14 to 24) made up 25.4 percent of accommodation and food services positions.

When looking at all industries, men held 46.9 percent of the jobs while women made up 53.1 of all workers in 2015. In spite of this imbalance, males in the county tended to be employed in higher wage jobs in what are generally considered traditionally male fields such as manufacturing and construction. There are wide differences in the composition of industry sector by gender in Jefferson County.

- Male-dominated industries included construction (81.8 percent), manufacturing (75.3 percent), agriculture, and forestry and fishing and hunting (75.8 percent).
- Female-dominated industries included finance and insurance (78.9 percent), healthcare and social assistance (80.7 percent) and educational services (70.6 percent).

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# Wages and income

(Source: Employment Security Department; Bureau of Labor Statistics; Bureau of Economic Analysis; U.S. Census Bureau; U.S. Census Bureau, American Community Survey)

In 2015, Jefferson County had 8,126 jobs covered by unemployment insurance system, with a payroll of \$296.2 million.

The 2015 average annual wage for Jefferson County was \$36,451 well below the state's average annual wage of \$56,650.

The median hourly wage in 2015 was \$19.95, less than that of the state's median hourly wage at \$23.15 and for the state less King County at \$20.24.

Median household income, according to U.S. Census QuickFacts, was \$47,202, well below that of the state's \$60,294 over the period 2010 through 2014.

# Personal income

Personal income includes earned income, investment income, and government payments such as Social Security and Veterans Benefits. Investment income includes income imputed from pension funds and from owning a home. Per capita personal income equals total personal income divided by the resident population.



Per capita personal income in Jefferson County in 2014 was \$43,311 compared to \$49,610 for the state and \$46,049 for the nation. Jefferson County ranked 8th in the state in 2014 in per capita income. It ranked fourth in 2012.

According to the U.S. Census QuickFacts, 12.6 percent of those in the county were living below the poverty level compared to 111.8 percent of the state population and 15.6 percent of the U.S. population in the period 2010 through 2014. The state and national rates are not directly comparable to the county rate because they each use different data sources.

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# Population

(Source: U.S. Census Bureau)

The population of Jefferson County was 30,466 in 2015. It grew from 29,872 in 2010.

Jefferson County's largest city, Port Townsend, had a population of 9,485 in 2015, up from 9,113 in 2010, an increase of 1.6 percent.

# Population facts

(Source: U.S. Census Bureau QuickFacts)

	Jefferson County	Washington state
Population 2015	30,466	7,170,351
Population 2010	29,872	6,724,543
Percent change, 2010 to 2015	2.0%	6.6%

# Age, gender and ethnicity

(Source: U.S. Census Bureau QuickFacts)

Jefferson County's population was older than the population of the state in 2015.

- The county's residents in the 65 and older category made up 33.3 percent of its population compared to 14.9 percent of the state's population.
- There were proportionately fewer young residents in Jefferson County compared to the state.

There were 15,466 females in the county's population at compared to 15,020 males in



# 2015.

The population also includes a much smaller percentage of people of color than the state averages with the exception of American Indians and Alaskan Natives, who accounted for 2.3 percent of the population in the county, higher than the state's percentage of 1.9 percent.

# **Demographics**

(Source: U	J.S. Census	Bureau	QuickFacts)
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	Jefferson County	Washington state
Population by age, 2015 Under 5 years old	2.20	6.200
Under 18 years old	3.3%	6.2%
65 years and older	13.2%	22.5%
	33.3%	14.4%
Females, 2015	50.7%	50.0%
Race/ethnicity, 2015	<b></b>	
White	91.4%	80.3%
Black	1.0%	4.1%
American Indian, Alaskan Native	2.3%	1.9%
Asian, Native Hawaiian, other Pacific Islander	2.0%	9.1%
Hispanic or Latino, any race	3.8%	12.4%

Educational attainment

(Source: U.S. Census Bureau QuickFacts)

Most of Jefferson County residents age 25 and older (94.4 percent) were high school graduates, which compares favorably with 90.2 percent of Washington state's residents and 86.3 percent of U.S. residents in the period 2010-2014.

Those with a bachelor's degree or higher made up 37.3 percent of Jefferson County residents age 25 and older compared to 32.3 percent of state residents and 29.3 percent of U.S. residents over the same period.

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# Useful links

County data tables

(https://esdorchardstorage.blob.core.windows.net/esdwa/Default/ESDWAGOV/labormarket-info/Libraries/Regional-reports/County-Data-Tables/Jefferson%20County%20data%20tables.xlsx)

- Jefferson County Chamber of Commerce (http://jeffcountychamber.org/)
- Jefferson County Economic Development Council (http://www.edcteamjefferson.com/)
- Visit Jefferson County (http://visitjeffersoncountywa.com/)
- Jefferson County History (http://www.historylink.org/index.cfm? DisplayPage=output.cfm&File\_Id=7472)
- Jefferson County home page (http://www.co.jefferson.wa.us/)
- Jefferson County on ofm.wa.gov (http://www.ofm.wa.gov/localdata/jeff.asp)
- Jefferson County on ChooseWashington.com (http://choosewashingtonstate.com/why-washington/our-region/)
- Kitsap County Workforce Development Council (Part of Olympic Consortium based in Kitsap) (http://www.kitsapgov.com/hr/wsolympic/olympdev/owdc.htm)
- Olympic Consortium WorkSource (http://www.olympicworksource.com/)
- Port of Port Townsend (http://www.portofpt.com/)
- Self Sufficiency Calculator for Washington State (http://www.thecalculator.org/)
- U.S. Census Bureau QuickFacts (http://www.census.gov/quickfacts/table/PST045214/53031)
- Washington Ports (http://www.washingtonports.org/)
- Workforce Development Areas and WorkSource Office Directory (https://seeker.worksourcewa.com/microsite/content.aspx? appid=MGSWAOFFLOC&pagetype=simple&seo=officelocator)

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# Citizen engagement

Rule-making (../../../newsroom/rulemaking) Equal opportunity (../../../newsroom/equalopportunity) Privacy policy (../../../newsroom/ESDprivacy-statement)

# Video library (../../.newsroom/videolibrary) Job fairs & hiring events (https://www.worksourcewa.com/r appid=WAWORKSHOPS&pagetype Unemployment Handbook (https://esdorchardstorage.blob.cc Handbook-for-

**Quick links** 

How are we doing?Unemployed-(https://fortress.wa.gov/esd/webform/contat/ddg)kers.pdf)Report fraudRecords office(../../.newsroom/report-(../../.newsroom/public-fraud)records)

# About us

Agency leadership (../../../newsroom/ESDleadership) Our mission and goals (../../../newsroom/about-ESD) Bids & contracts (../../../newsroom/bidsand-contracts)ESD Advisory committee (../../../newsroom/ESAC) Legislative resources (../../../newsroom/legislativeresources)

#### **Contact us**

(../../../newsroom)

services) Newsroom

Veterans (../../../jobsand-training/veteran-

Ask a question about your claim (https://fortress.wa.gov/esd/webfc Info for workers (../../../unemployment/unemployed workers-contact) Info for employers (../../employertaxes/contact-info-foremployers) WorkSource (https://seeker.worksourcewa.com Webmaster (../../newsroom/contactwebmaster) **ESD** headquarters (../../../newsroom/contact-ESD)

#### State government

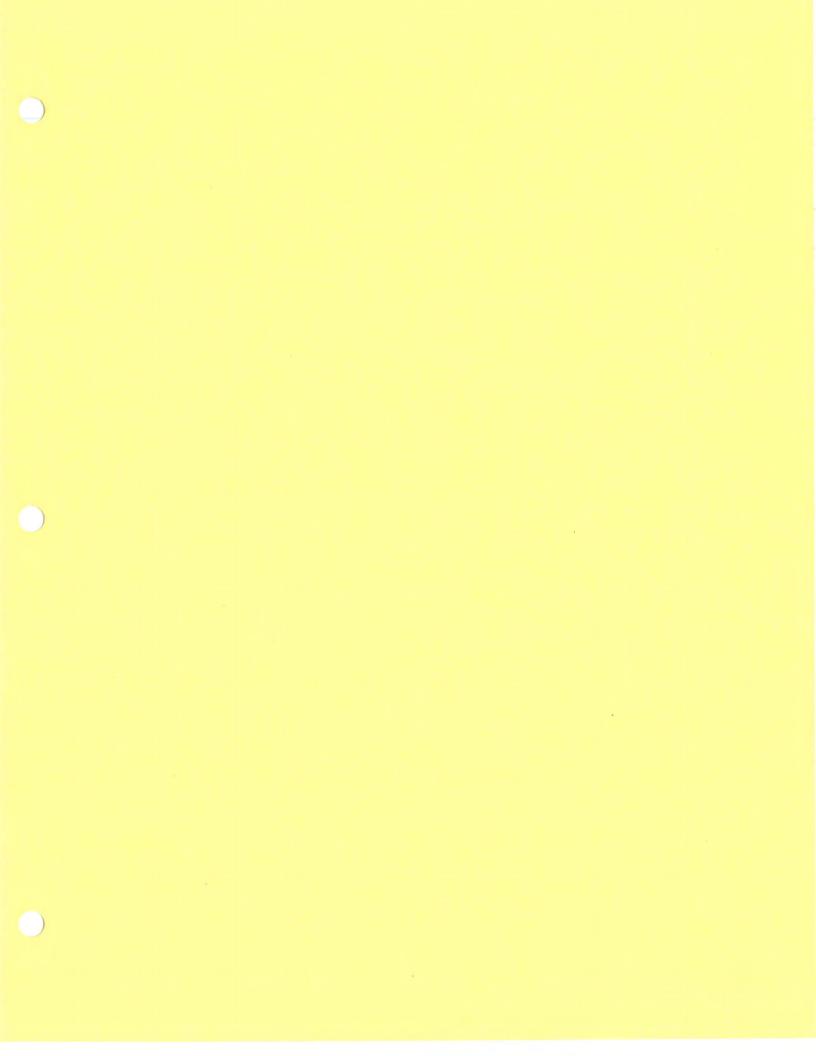
Access Washington (http://access.wa.gov/) Register to vote (https://wei.sos.wa.gov/agency/osos/en/voters/Pages/register\_to\_vote.aspx) Washington Healthplanfinder (https://www.wahealthplanfinder.org/HBEWeb/Annon\_DisplayHomePage.actio authn\_try\_count=0&contextType=external&username=string&contextValue=%; Find a rule or a law (http://leg.wa.gov/LawsAndAgencyRules/Pages/default.aspx)

# OTHER LANGUAGES (../../newsroom/UI-languages)

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🦾 (../../employee)





#### sand and gravel

#### (1) Peninsula Sand & Gravel

Address: 50 NE Peninsula Blvd, Belfair, WA 98528 Phone: (360) 275-1000 Website: http://peninsulatopsoil.com/

#### ③ Miles Sand & Gravel Inc

Address: 1920 SW Pine Rd, Port Orchard, WA 98367 Phone: (253) 857-7100 Website: http://www.milessandandgravel.com/

#### 5 Peninsula Topsoil

Address: 24943 NE State Route 3, Belfair, WA 98528 Phone: (360) 275-1000 Website: http://peninsulatopsoil.com/

#### ⑦ Morrison Gravel

Address: 1004 SE Spencer Ave, Port Orchard, WA 98367 Phone: (360) 876-4701 Website: http://www.morrisongravel.com/

### In Port Orchard Sand & Gravel Company

Address: 7000 W Werner Rd, Bremerton, WA 98312 Phone: (206) 682-6349

#### 2 Burien Sand & Gravel Llc

Address: 18203 Des Moines Memorial Dr S, Seatac, WA 98148 Phone: (206) 246-7000 Website: http://buriensandandgravel.com

#### ④ Port Orchard Sand & Gravel

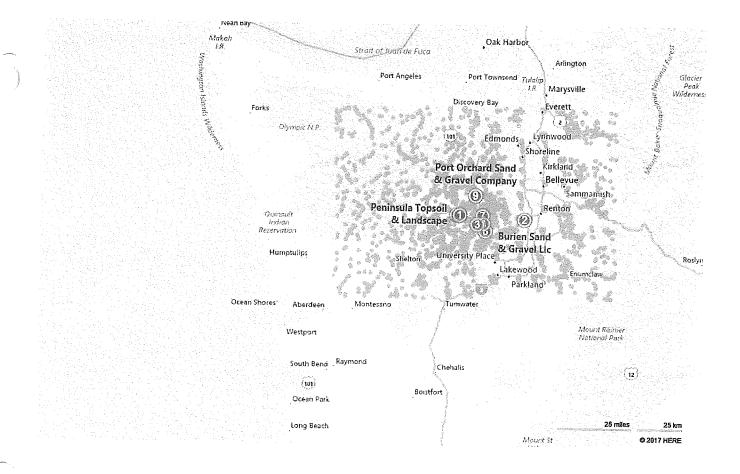
Address: 14119 Colony Ave SE, Port Orchard, WA 98367 Phone: (253) 857-3006

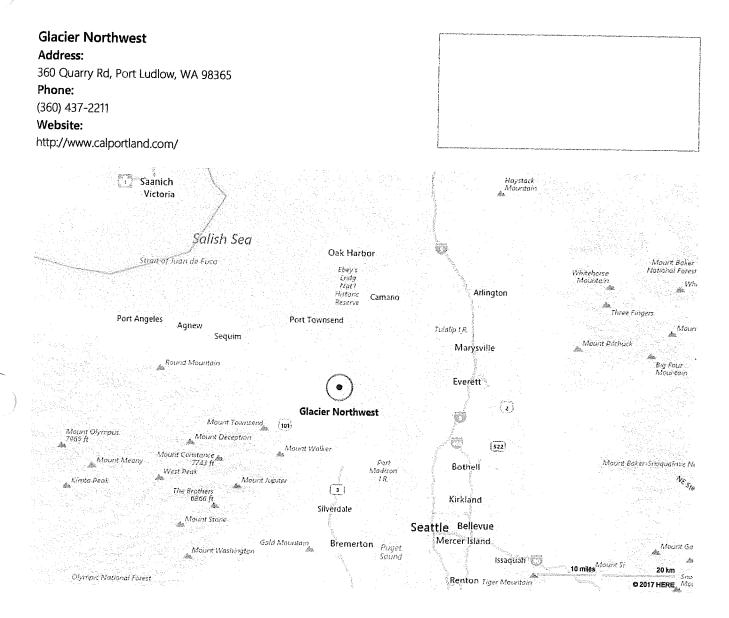
#### 6 Purdy Topsoil & Gravel

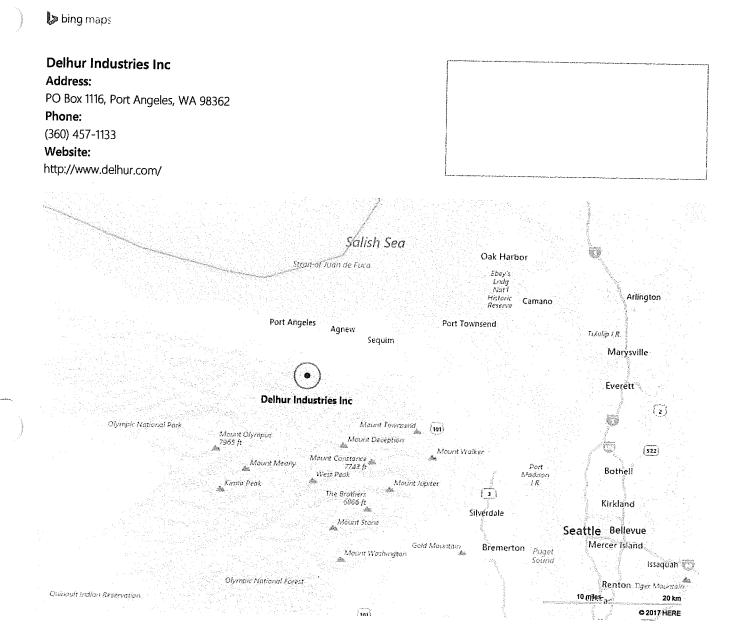
Address: 5819 133rd St NW, Gig Harbor, WA 98332 Phone: (253) 857-5850 Website: http://www.randlessandandgravel.net/Purdy-To psoil-and-Gravel

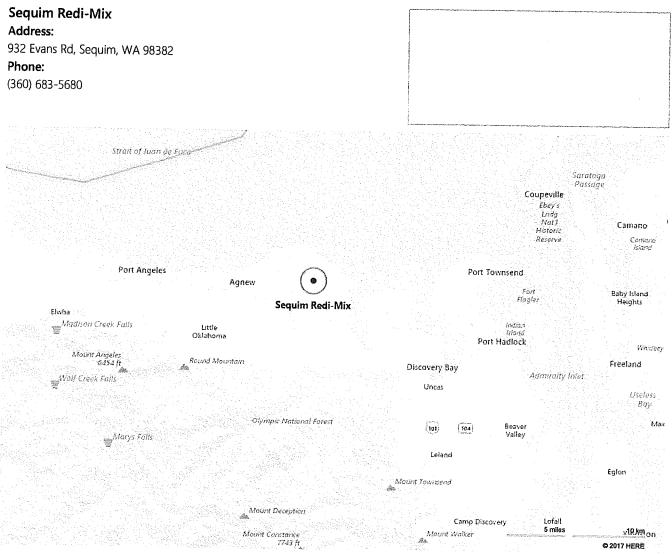
#### 8 Peninsula Topsoil & Landscape

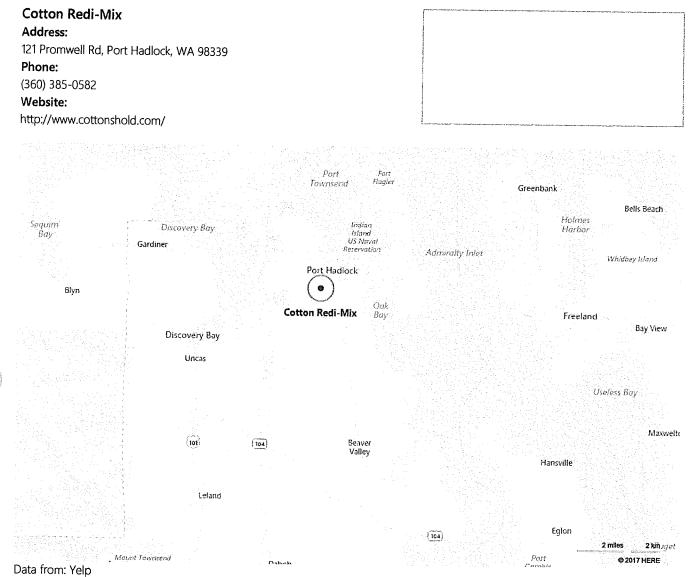
Address: NE Timberline Dr, Belfair, WA 98528 Phone: (360) 275-1000 Website: http://peninsulatopsoil.com/

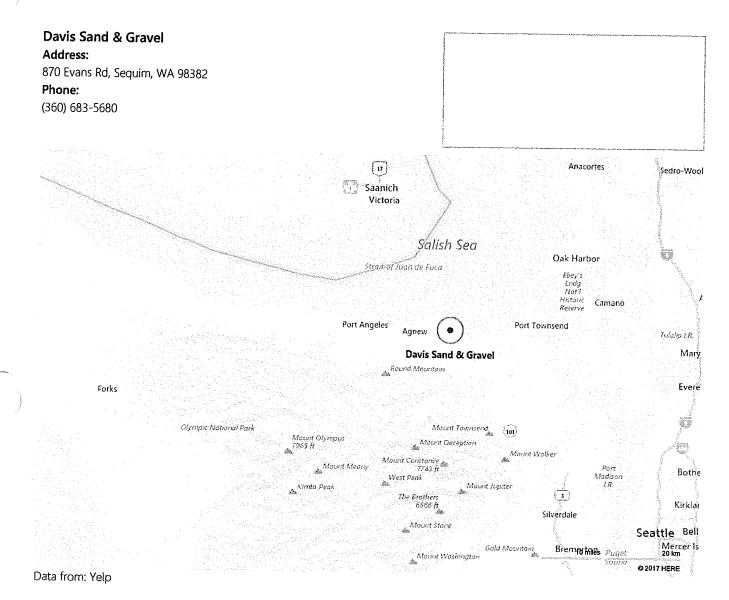


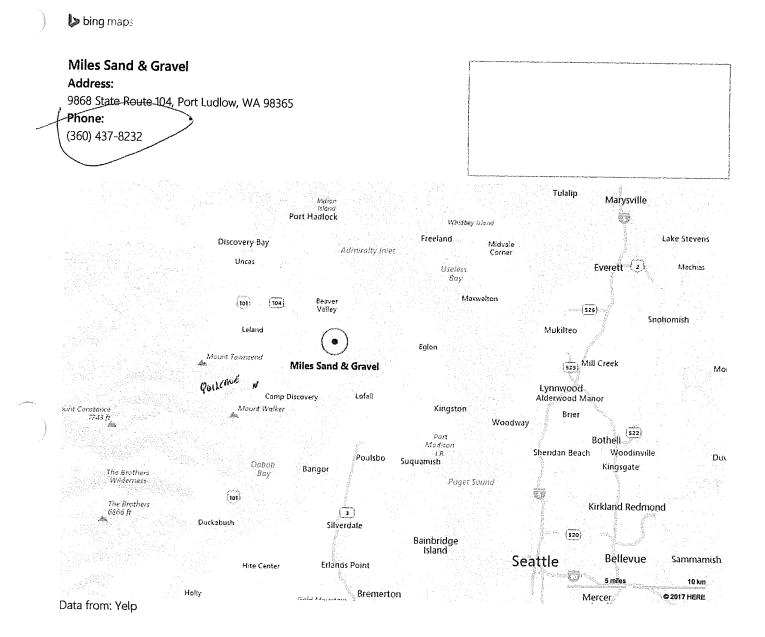


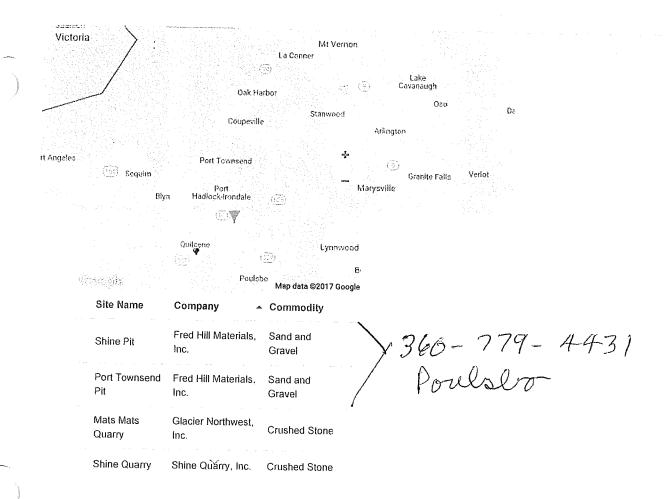


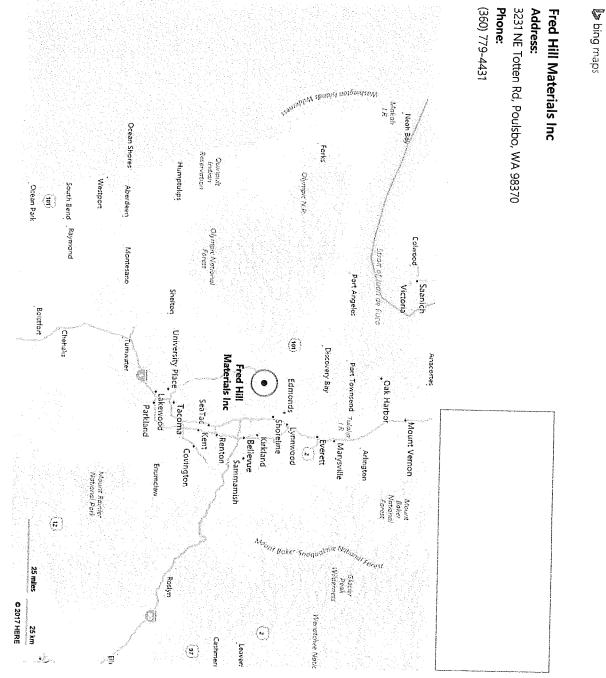


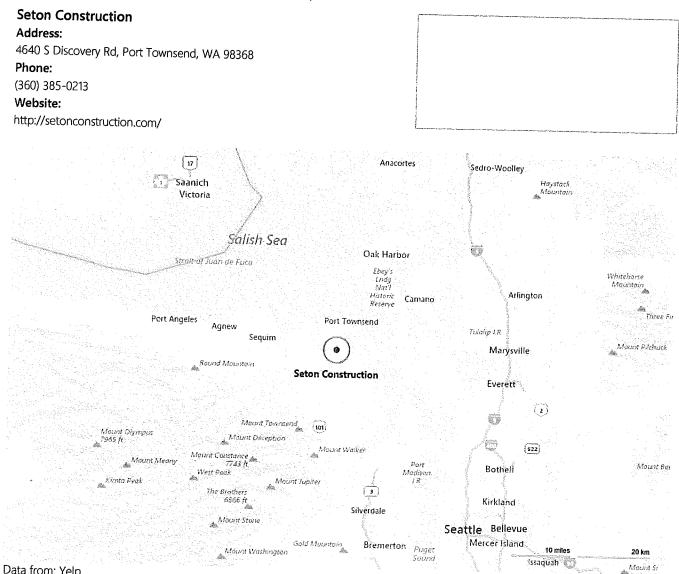












Data from: Yelp

**Qualifications of Appraisers** 

# **Qualifications of Gregory L. Goodman, MAI**

Managing Director Valbridge Property Advisors | Allen Brackett Shedd

# Experience

Principal of *Allen Brackett Shedd*. Involved in the real estate field since February of 1999. Appraisal experience includes a wide variety of appraisal assignments, consisting of vacant and improved commercial, industrial, residential and mixed-use properties. Examples of the wide variety of properties appraised include: large scale mixed-use projects comprised of retail, office and residential uses, subdivisions, sensitive area properties, rail and utility corridors, lake bedlands, shopping centers, auto dealerships, as well as more typical commercial, industrial and residential improved properties.

Valuations have been performed for acquisitions in fee, leased fee and leasehold interests, as well as various partial interests including conservation easements, utility easements, subsurface easements and air rights easements. Numerous appraisal assignments performed have been associated with condemnation of all or a part of a property and involved mediation and other litigation support work.

Appraisal assignments include work throughout the Puget Sound Region, including King, Pierce, Snohomish, Kitsap, Thurston, Whatcom, Skagit, and Island Counties.

# **Professional Affiliations**

Member, Appraisal Institute. Received MAI designation May 12, 2008 Member of the International Right-of-Way Association

# Education

University of Washington, Seattle, Washington: BA Degree in Business Administration with concentrations in Finance and Information Systems, December of 1998.

Have completed all appraisal courses required for MAI designation. Additional seminar and continuing education includes:

- Appraisal Institute: Basic and Advanced Condemnation courses
- Appraisal Institute: UASFLA (Yellow Book) course
- Appraisal Institute: Attacking and Defending an Appraisal in Litigation
- Appraisal Institute: Valuation of Easements and other Divided Interests

# Representative Client List:

#### **Government/Public Agencies**

City of Auburn City of Bellevue City of Bellingham City of Bothell City of Edmonds City of Everett City of Kent City of Kirkland City of North Bend City of Puyallup City of Redmond City of Renton

City of SeaTac City of Sumner City of Seattle City of Tukwila City of University Place Covington Water District Edmonds School District Jefferson County King County Dept. of Transportation King County Open Space King County Public Works Monroe Public Schools

#### **GREGORY L. GOODMAN, MAI (cont.)**

#### **Government/Public Agencies (cont.)**

Pierce County Public Works Port of Seattle Renton Housing Authority Seattle Housing Authority Seattle Monorail Project Seattle Public Library Seattle Public School District

#### Attorneys-at-Law

Cairncross & Hempelmann Davis Wright Tremaine Foster Pepper Graham & Dunn Hanson, Baker, Ludlow & Drumheller K&L Gates Lane, Powell, Spears & Lubersky Lasher, Holzapfel, Sperry & Ebberson Seattle Public Utilities Shoreline Public Schools Sound Transit US Army Corps of Engineers US Navy Washington State Dept. of Transportation Woodinville Water District

Perkins Coie Riddell Williams Short, Cressman & Burgess Stella Pitts and Associates Tousley Brain Stephens Washington State Attorney General's Office Williams & Williams

Private Sector

Burlington Northern Santa Fe Cadman, Inc. Cascade Land Conservancy Certified Land Services Clise Properties Inc. David Evans and Associates **Deposit & Associates** Development Services of America Evergreen Center Associates Greenwell/Renton LLC Jefferson Land Trust Johnson Underwood Properties Kittitas Conservation Trust Lakeside Industries Lynden Incorporated Master Park

Nature Conservancy Newmark Realty Capital New Ventures Group Palmer Coking Coal Pharos Corporation Port Blakely Communities Puget Sound Energy Puget Western Quadrant San Juan Preservation Trust Seattle Art Museum Seattle Pacific University Staubach Stellar Holdings, Inc.

McDonald's Corporation

#### **Financial Institutions**

Anchor Savings Bank Bank of America Charter Bank Frontier Bank Timberland Bank Toyota Financial Services Sterling Savings Bank Union Bank US Bank

### **State Certification Number – General**: 27011-1101089

(Revised 12/03/13)

**Expiration**: 12/02/17