Fair Market Valuation Report Sugar Cane Train - Lahaina Railroad LLC State of Hawaii



April 16, 2015

Prepared by:



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Appraisal Description

Stone Consulting, Inc. was retained by Lahaina Railroad LLC to perform a "Fair Market Valuation" (FMV) for the physical assets of the tourist railroad operation on the Island of Maui known as "The Sugar Cane Train". This operation has 5.12 miles of 3ft gage track with associated locomotives, rolling stock (rail cars), maintenance equipment and tooling. The railroad is located between Lahaina and Puukolii and serves as a passenger carrying train for entertainment purposes catering to the tourist industry. It uses real operating period steam locomotives and recreated passenger cars reminiscent of historic Hawaiian cars of years gone by on a narrow gage railroad using rail salvaged from the long disappeared Kahului Railroad. The purpose of this appraisal is to determine the Fair Market Value of the assets of this operation for financing and collateral purposes. It does not look at the going concern value of the operation as a business. Each asset was inspected and identified and appraised as to value based on the most appropriate criteria; which could be scrap, or value of similar assets found by comp sales, or other applicable means. As condition is an important criteria, as much conditional information as was practical was obtained in order to provide the most accurate values. The valuation is based on pricing for April 2015.

Background

This railroad was built specifically for the purpose of entertainment; hauling tourists on a nostalgic rail ride. When it was built during 1969 - 1970 it was able to by-pass certain regulatory requirements due to the nature of its operation and has survived in that form and context since construction under several different owners. There are approximately 5.12 miles of track as scoped out including main line, sidings and yard tracks. Most of the rail is from the defunct Kahului Railroad on the other side of the island, with equipment either brought in from the mainland or built locally as noted.

As an operation remote from areas of supply and operating historic steam locomotives, it has developed a self sufficiency which gives it a larger than expected fixed asset base than many other tourist rail operations.

Generally the equipment last in use was noted as being well maintained, although out-ofservice equipment was being stripped for parts or otherwise neglected as surplus. The rail,



although old, is of a premium section and shows little wear, even after almost 100 years and under the expected future use should have at least as much wear left in it. Many of the wooden ties are ready for replacement although there can be recognized some salvage value in what percentage of good ties were noted. It is also of note that the County of Maui will take as landfill used deteriorated ties negating a disposal cost.

Although not the intent of this appraisal, this property has a good going concern potential based on its location and potential for growth as part of a larger development and plan than just as a stand alone rail operation. An NLV was also not undertaken, but due to the marketability of key assets such as the locomotives and rail and the ability to dispose of large quantities of rotted cross ties at zero cost there is good residual value as well.

On-Site Inspection

Track and Structures Appraisal

Fair Market Value as used in this report pertaining to track has the generally accepted definition of "salvaged value less take up" of the physical plant reflecting April 2015 market value of the assets. A value has been established based on contract scrap market price and used track values, which the consultant believes to be a fair and reasonable assessment for the value of the ferrous material.

The following is a description of the methodology used for estimating the value of the track assets. It is desirable to first define the physical assets of the track that are considered to have the greatest potential value. Track is considered as a structure that is composed of the ferrous metal components such as rail and other track material (OTM).

The initial step in estimating track value is to assemble an inventory of track materials by geographical location, which was generated from the site visit. In developing the track inventory, it is separated into groupings by pattern weight of the rail and the documented and verified lineal feet associated with each weight. The next step is to calculate the estimated total weight of ferrous metal for rail and OTM for each weight of rail. This was accomplished through the reports and data given to Stone Consulting, the inspection trip and a review of pictures taken during the trip.

Inventory and Condition

A systematic on-site inspection was done of the rail track, locomotives, rolling stock, vehicles, tooling and equipment. These assets were indentified and inspected for condition and market value in order to determine an overall Fair Market Value of this operation. Stone Consulting, Inc. did not have in their scope to value buildings or real estate and those costs are not included in the totals derived.

Rail Valuation

All rail was a generally consistent 60 pound / yard section of profile ASCE rolled in the 19-teen to 20's era. Repeated attempts to find mill stampings on the web were unsuccessful due to age, rust and vegetation. It is known that most of this rail was salvaged from the defunct Kahului Railroad which was 60#AS rail and this section would have been rolled as an open hearth section consistent with what was observed during the site visit. The condition of the rail was very good for the age and little head wear, wastage, warping or other defects were noted making it relay quality Class I or Class II.

Rail lengths varied from 33 ft per stick to lesser lengths. Most mill specs state that 60AS was rolled in 30 ft sections but specific measurements were made on various pieces and 33 ft sticks are certainly common. Due to the various sizes of rail length it was decided that a 30 ft. length would be used to calculate for OTM (bars and bolts). Joint bars are a mixture of 20" and 24" toe style bars with 4 bolts per bar. Tie plates consisted of 6"x8", 7"x9" and 8"x9" plates with two spikes per plate in tangents and 3 spikes/plate in curves. Spikes were 6" but most were noted as very wasted and it might be that they were actually reused spikes from the Kahului operation instead of the generally accepted practice of using new. An allowance has been taken due to this wastage. Track bolts are 3/4" diameter x 4-1/2 length with nuts and lock washers. No missing bolts were noted in the survey sections.

Rail / Track Tabulation

Track Segment	Distance feet	Distance miles
Main Line: Lahaina to Kakaalaneo Drive	22,853	4.33
Lahaina siding	420	0.08
"The Siding"	350	0.07
Kaanapali Stub Track	230	0.04
Puukolii Yard (inclusive of wye, loop spur, and yard tracks)	3165	0.60
TOTAL	27,018	5.12

These track lengths were observed on the site visit and correlated and measured using Google Earth to obtain as much accuracy as possible.

Rail and OTM (Other Track Material) Weights

Rail and OT	M Weight Ca	alcula	tions							
	QTY	Unit	Conversion to Miles	net tons / mile	Total Net Tons	FM\	/ / Ton	To	otal FMV	Notes
Rail	27,018	feet	5.117	105.6	540.36	\$	500	\$	270,180	Relay Rail Reuse
			Weight (lbs) EA Size 6x8	Tie Spacing	Total Net Tons					
Plates	27,518	EA	6.55	24"	108.15	\$	500	\$	54,073	Assuming 20% of plates are larger than 6x8
incl-	+ 500 in inver	ntory								
			Weight (lbs) per pair Size 20"	Rail Length (feet)	Total Net Tons					
Bars	1801	Pairs	27.2	30	29.40	\$	500	\$	14,698	Assume 20% are 24" bars at 32.5 lbs / pair
			Weight (lbs) per pair Size 3/4 x 4-1/2	Bolts / Pair	Total Net Tons					Weight estimate to include lock washer
Bolts	7205	EA	1	4	3.6024	\$	214	\$	771	
			Weight EA (lbs) - 20% wastage	Avg. Spikes / Plate						
Spikes	60,791	EA	0.65568	2.25	19.93	\$	214	\$	4,265	Assuming 24" Center Ties
										2 / tie on tangent and 3/ tie on curves
										Wastage at 20% deduct
			Weight EA (lbs)		Total Net Tons					
Turnouts	11	EA	9680		53.24	\$	214	\$	11,393	Includes frogs, points and clips and bolts
								TOT	AL FMV	
TOTALS								\$	355,380	

Rail Values

In discussions with vendors (Kovalchick Salvage and Kimes Steel & Rail) it was determined that there is a market for 60AS rail in the underground mining industry which is greater than the scrap price of the rail. Several years ago this price/net ton for 60AS was in the \$700/net ton range but in recent months the price of new steel and scrap has gone down considerably. New 60AS that is being rolled is only selling for \$600/NT which is the cap limit for any relay rail. At this time both Kimes and Kovalchick would pay \$500/NT delivered to their facilities in the Eastern US. As this would be a baseline cost FOB Vendor for any 60AS relay rail it is therefore deemed to be the FMV price per ton of the rail on site in track inclusive of the bars and plates which would be reused. Spikes and bolts would not be reused and would only command scrap pricing.

An additional 500 tie plates were added to the plate count to represent the 500 plates in inventory.

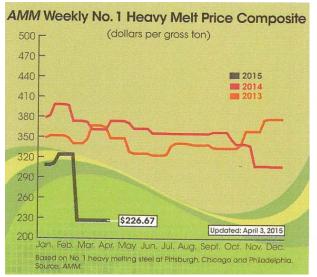
A Note About Scrap Prices

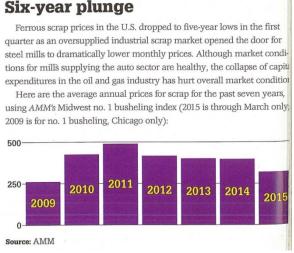
The scrap ferrous steel market peaked in 2011 and has been on a downward trend since that time. In the first quarter of 2015 prices fell almost \$100/net ton, the highest drop since the 2008 recession according to the April 2015 *American Metal Market Scrap Edition* - Volume 2, Issue 2. This affects not only scrap metal values of the track, but also affects the value of used rail and OTM (other track material) such as good joint bars and plates. Along with the slide in scrap prices, the worldwide price of scrap has fallen due to

lessening demand from China and excess inventories in some cases that has forced down the price of new rail which sets the cap for used rail pricing. Therefore, it is expected that prices are at an all time low at this time and expected to rebound sometime in 2016. This situation greatly affects the values determined in this report.

At the time of this appraisal, no local dealers would quote a price for ferrous scrap in Hawaii. Calls were made to Schnitzer in Honolulu and to Hammerhead in Kihei, Maui. Although dealers were not quoting pricing due to the loss of market demand, the steel still has a value. In order to determine a value, the price of rail crops and #1 bundles was found using American Metal Market (AMM) Pricing for March 2015 and the average premium determined for the rail crops. Then that premium was applied to the AMM quoted pricing for Los Angeles export #1 heavy melt. This total was then converted into net tons to determine a realistic Fair Market Value of the rail and OTM scrap material.

Scrap Pricing	g Ind	ex								
AMM Pricing in G	Pross T	ons								
	Rail	Crops	#1 Heav	vy Melt	<u>D</u>)ate				
Chicago	\$	285	\$	225	Ν	/lar-15				
Cleveland	\$	370	\$	237	Ν	/lar-15				
Philadelphia	\$	325	\$	220	Ν	/lar-15				
Pittsburgh	\$	355	\$	235	Ν	/lar-15				
Average	\$	334	\$	229						
Price Delta	\$	105	Differer	nce in av	/era	ge prici	ng betwee	n Rail Cro	ps and #	1 Heavy Melt
				-	_					
LA Export Pri	ce of	t #1 He	avy Mel	t	\$	135	Mar-15			
Add Avg. pre	n for ra	il crops		\$	105					
Appraised Pr	ice/	Gross	Ton - Ma	aui	\$	240				
Appraised P	Appraised Price / Net Ton - Maui									





AMM Graphs Depicting Recent Scrap Market Pricing



Track Ties

Ties are generally 6x8x6 foot accommodating the 3 foot track gage. Although there are variations, especially with newer tie installations, generally it was found that tie centers are at 24".

Based on the 24" centerline and 27,018 feet of track, there would be approximately 13,509 ties.

Tie Inspect	ion Samples					
Sample	Location	Good	Landso	Junk	Total	Notes
1	Lahaina MP 0.1	53	33	24	110	110 count
2	"The Siding" MP 2.3	59	31	10	100	2.5% grade
3	Kaanapali MP 3.6	33	33	24	90	90 count - non-contiguous due to vegetation and ballast covering ties
4	Puukolii MP 4.5	16	36	48	100	Not contiguous due to loomotive matting, crossing planks and vegetat
5	Puukolii Wye	100	0	0	100	Track installed circa 2007
Totals		<u>261</u>	<u>133</u>	106	<u>500</u>	
Percentage	2	52%	27%	21%		

Tie FMV								
Feet of Track		27,018	of tr	ack				
Ties Centers		24	inch	es				
Number of Ties		13,509						
Relay Tie Total		7,052						
FMV / Tie	\$	20.64						
Total Tie FMV	\$	145,544						
Comps based on	Stella J	lones new tie	price	at \$58	.97 EA	dated	3-23-15	
with relay tie val	ued at	35% new						
All other ties valued at Zero Cost due to disposal costs and regulations against re-use due								

Good ties are valued at 35% of the cost of a new tie of similar grade and treatment, lower than the typical 50% ratio as many of the good ties are better than 50% worn although they are still capable of reuse. These would be categorized as relay ties in the rail market if removed from the track and have a residual value. Approximately 52% of the existing ties would fall into this category. The remaining 48% are either marginal which would normally be assigned a landscape value or junk, meaning they are totally rotten with disposal the only option. Due to regulations in Hawaii regarding treated lumber, "landscape" ties could not be sold, and would have a zero value. Junk ties are normally assigned a negative value due to their need for disposal and associated costs, but it has been represented by Sugar Cane Train management that the County of Maui would landfill these ties at no cost and hence they are also assigned a zero value.

Turnout Inventory

Qty	Location	Purpose	Rail Size / Type	Point Length	Frog Angle	Frog Type	Notes	Condition
1	Lahaina	Turntable Lead	60AS	13 ft	#6 Right	Bolted	Spring switch	Good Relay
1	The Siding - South	Runaround Track	60AS	10 ft	#6 Left	Bolted	High Switch stand	Good Relay
1	The Siding - North	Runaround Track	60AS	10 ft	#6 Right	Bolted	High Switch stand	Good Relay
1	Kaanapali	Stub track	60AS	10 ft	#6 Left	Bolted	Low stand / defective	Good Relay
1	Puukolii	Yard Lead (Wye to #4)	60AS	10 ft	#6 Right	Rigid Plate	High Stand	Good Relay
1	Puukolii Yard	Track #4 to Track #2	60AS	10 ft	#6 Right	Bolted	Low stand - parts missing	Relay
1	Puukolii Yard	Shop #2 to Shop #1	60AS	10 ft	#6 Right	Bolted	Harp Frame - Medium target	Good Relay
1	Puukolii Yard	Track #4 to Track #3	60AS	10 ft	#6 Right	Bolted	Weir D 20 Stand	Good Relay
1	Puukolii Yard	Tail of Wye	60AS	10 ft	#6 Left	Bolted	Spring switch	Good Relay
1	Puukolii Yard	North Leg and End of Track	60AS	10 ft	#6 Left	Bolted	Spring switch	Good Relay
<u>1</u>	Puukolii Yard	South Leg of Wye	60AS	10 ft	#6 Right	RBM	Spring switch	Good Relay

Total Turnouts – 11

All turnouts are in good relay condition with good rail, frogs and points, although some stands are defective or missing parts.

In discussion with various vendors, scrappers and suppliers there appears to be no market other than scrap for these 3' gage turnouts. Even the frogs which could be utilized in a standard gage track are too sharp of a turnout and are not desired. All turnouts are hence categorized as scrap and are rolled up within the Rail / OTM Inventory section.

Unused Track Hardware (Inventory)

Track Hard	ware (Invent	ory)							FMV	Comp Price
					Per 20	0# Keg	# of Kegs	QTY (EA)		KIMES STEEL & RAIL
Spikes - 5/8	3x6"				\$	188.00	8		\$ 1,504.00	
					Per 1	00# Keg				
Spikes - 5/8	3x6"				\$	94.00	6		\$ 564.00	
			Price EA							
Track Bolts	3/4 x 4-1/2		\$2.50 EA with lock washer		\$	562.50	6		\$ 3,375.00	1.85 / bolt
Washer	3/4"		\$	0.49				1000	\$ 490.00	for 3/4 x 4" - no washer
										Washer - 3/4" price 49 cents
Unused ties			\$	58.97				160	\$ 9,435	Stella Jones Quote 3-23-15
TOTAL TRA	TOTAL TRACK HARDWARE (INVENTORY)								\$ 15,368	

Unused track material held in inventory has value based on current market pricing. Market pricing was obtained from Kimes Steel and Rail, a supplier of light rail track products, and utilized for the basis of this inventory valuation.

Grade Crossings / Signal Valuations (ZERO VALUE)

One of the components reviewed in the valuation were the grade crossing signals.

New installations in the industry are normally federally funded under Section 130 money and require new material as standard criteria in order to best comply with FRA regulations under 49CFR Part 234. After reviewing the crossings in this project, it was determined that the crossings would not impact the FMV of the project as the installations are not fully Part 234 compliant and any scrap or resale value would offset the removal cost without significant profit or loss.

Lahaina Turntable

This is a relatively new turntable installed in 1987, built by Lovsted of Seattle, WA. It is a 48' diameter powered by an electric motor with control station and locking gear. Comp sales of turntables were not available as they are a specialized item that has not appeared on the market in recent years.

Considerable effort was made to track down the manufacturer and to understand more specifics of the turntable and the recent market, but to no avail. Due then to this lack of information, the primary value of the table can only be confined to the center bearing, gearing and running rail. An estimate of these components would conservatively be in the \$10,000 range. Since the table is comparably small at 48' and probably designed for a 50 ton or less locomotive it is of small nature and not particularly of interest to most rail operators who would have much longer and heavier locomotives. Although the value of this asset could conceivably be in the \$25,000 range, the nominal value set due to lack of comps or specifics is conservatively appraised by the value of those key components needed for the fabrication and installation of a comparable device used for turning around locomotives.

Locomotives

Locomotives										
		_	- 41				- h - l			
<u>Number</u>	<u>Name</u>	Туре	<u>Builder</u>	Builders #	Date	<u>Driver Diameter</u>	Cylinders	Weight	Notes	<u>Status</u>
1	Anaka	2-6-0	Porter	7398	1943	36"	12x18	51000	Ex Carbon Limestone 0-4-0T #36 Built as 38" gage	Operable - 766 days left on 1472 insp.
3	Myrtle	2-6-0	Porter	7397	1943	36"	12x18	50500	Ex Carbon Limestone 0-4-0T #35 Built as 38" gage	Oprtable - 1138 days left on 1472 insp.
45	Diesel	0-4-0	Fate-Root Heath	6166	1959		Diesel	60000	Ex Oahu Railway #45	Operable but needs torque converter
5		0-6-2T	Baldwin	32816	1908	33"	12x16	51000	Ex Oahu Sugar #5	Display Only

Both steam locomotives were built for Carbon Limestone, an Ohio industrial operation, in February 1943 and were built to 38" gage 0-4-0T configuration. Modifications were made to backdate them in appearance and configure them to a more suitable condition for the operation in Hawaii, including converting them to tender instead of tank operation. Air brakes are SA-9 independent and A-9 automatic. This work was performed in 1970-71 as part of the initial opening of the railroad.

Boiler pressure is 180 psi.

Both locomotives have single stage air compressors and steam dynamos.

Locomotive #1 has a tender capacity of 500 gallons waste oil fuel and 2000 gallons water capacity.

Locomotive #3 has a tender oil capacity of 600 gallons and water capacity of 2000 gallons.



Both locomotives were in service at the time the railroad was shut down in August 2014. Form 4 Specification Cards, Form 5 Locomotive Service records and recent inspection records were reviewed.

Wheels on both locomotives are in very good condition.

A washout plug was pulled on #1 and the interior was found to be very clean evidencing good maintenance and boiler water treatment.

Overall they both appear in very good mechanical condition.

Form 5 records were reviewed and are the criteria used for the basis of the appraisal as they denote the number of days a locomotive may remain in service before its next major boiler inspection. A general baseline FMV is set for the locomotives and a deduct taken off pro-rated on the remaining time left on the 1472 inspection. An estimate by Kelly Anderson, Vice President of Motive Power, Equipment & Shops at the Strasburg Railroad, a leading steam locomotive contract repair facility, are that a Form 4 and boiler re-tube would be in the \$150,000 range for these locomotives. Several other contractors came in at a lesser cost. The pro-rated time left would be applied to this 1472 day inspection cost and that is the deduct off the baseline cost of a locomotive fresh out of 1472 inspection. In other words, remaining operating time is prorated from a base locomotive value to determine the actual FMV.

Defining Baseline Cost

John Rimmasch of Wasatch Railroad Contractors estimates that a 36" gage locomotive in operating condition compliant with FRA Part 230 should command no less than \$250,000 and no more than \$750,000. This is consistent and actually on par with standard gage locomotives, and the major difference being utility as related to size. However, no sale has yet been documented in recent years of over \$500,000 for any operating steam locomotive. The larger engines still existent and operating are on operations that are in need of a locomotive of minimum tractive effort and horsepower and small locomotives in the 25-35 ton range generally are too small. The major market in the past for small locomotives has been Disney for their California and Florida amusement ride operations and Busch Gardens. Currently, there have been rumors that Disney may be phasing out their 3' gage propane burning steam locomotives and the general market for operating steam in the 25 - 35 ton range is very small and specialized, but however does exist.

TranSystems did a steam locomotive appraisal in October 2009 and came up with a mix of standard and narrow gage locomotive transactions and locomotives for sale. The range was \$44,000 asking price for a non-operating standard gage ex-Military switcher to \$420,000 for a rebuilt nearly new Chinese SY class 2-8-2. A former Kahului Railroad narrow gage 2-6-2 #12 sold in May 2005 for \$175,000. The asking price had been \$250,000 and the locomotive was operable but in poor condition. This locomotive was



considerably larger than either Sugar Cane Train Locos #1 and #3. Most documented steam locomotive sales have been discounted from 30% to 37.5 % from asking price which is in itself a factor of the limited market.

Based on these sales statistics, Wasatch estimates, current asking price for 3' gage locomotives on the market much bigger than the Sugar Cane train engines and the discount factor it would be reasonable to assume a base FMV of \$325,000 for a locomotive in good operating condition with full 1472 inspection and good boiler and running gear.

Using this baseline, an estimated \$80,000 1472 inspection cost and the discount factor results in the following:

Locomotive	Base FMV	Service Days Left	Percentage of Service Days Left	Cost of 1472	Percent in \$ of 1472 used	FMV
1 "Anaka"	\$325,000	766	52.04%	\$80,000.00	\$38,370	\$286,630
3 "Myrtle"	\$325,000	1138	77.31%	\$80,000.00	\$18,152	\$306,848

Diesel #45 is operable but only in very light duty as it has a defective torque converter. It has a Caterpillar C9 Industrial Engine installed in 2005 and burns #2 diesel. It has dual controls (only right side operable) with an A-2 independent brake and an A-9 automatic brake. Wheels are in good legal condition and no other major mechanical defects were noted other than the defective torque converter. 3' foot gage diesels are very rare with only a few examples available. White Pass & Yukon in Alaska had some big road engines rebuilt in Seattle about 10 years ago, Sumpter Valley RR in Oregon bought a locomotive from Georgetown Loop about the same time and several U.S. 3 ft gage operations were looking for relief diesel power also in the last ten years including Cumbres & Toltec Scenic in New Mexico where scoping went as far as the Philippines, Central America and Mexico. Although not well adapted to operation on a daily basis on the Sugar Cane Train, this locomotive has some appreciable value. Comp sales can only be based on standard gage equipment as sales of 3 foot gage diesels are rare due to their scarcity as mentioned. Comparable standard gage locomotives have sold for as little as \$22,000 in unrebuilt condition up to \$40,000. Due to the defects noted in the torque converter on #45 and the limited market which makes a high demand price only when a buyer is looking, it is the opinion of the appraiser that this locomotive would have an FMV of \$35,000.

Locomotive #5 seems to have some disputed history depending on the research source checked but is most probably former Oahu Sugar #5 built by Baldwin in 1908 as construction #32816 and later sold to Travel Town in California in 1954. It was repatriated to Hawaii by Willis Kyle in the 1970's. At one time it was scheduled to be rebuilt but the replacement boiler (still on property) was defectively engineered and constructed and the engine sits at Lahaina as a display hulk with many pieces missing and a non-rebuildable boiler. It has value as an historic Hawaiian locomotive and as a saddle tank steam locomotive of 3' gage which gives it local historic value but the FMV realistically would be just scrap value. The cost to restore it to operation would be considerable. Therefore, a

core scrap value of \$5,453.00 is assigned based on a scrap price of \$213.84/ton based on the weight 25.5 tons.

Total Locomotive FMV Summary

Summary of Value	
Number	FMV
1	\$ 286,630 \$306,848 \$35,000 5,453
3	\$306,848
45	\$35,000
5	\$ 5,453
TOTAL	\$ 633,931

Rolling Stock

Rolling Stock	k							
Number	Туре	Seating	Builder	Date	Gen-Set	Status	<u>Notes</u>	FMV
101	Coach	48	Keystone / Harliss	1970	No	in service	Has passenger style trucks	\$38,00
102	Coach	48	Keystone / Harliss	1970	No	out of service	Partially Stripped / Needs Overhaul to be serviceable / Body Rot	\$25,00
103	Coach	48	Keystone / Harliss	1971		out of service	Needs Overhaul	\$25,00
104	Coach	48	Keystone / Harliss	circa 1971	No	out of service	Heavily Stripped / Needs Overhaul to be serviceable / Body Rot	\$20,00
105	Open -enclosed A/C	44	LK&P	later than 1973	No	in service	Provision for Gen-Set but not installed	\$40,00
106	Coach	48	LK&P	later than 1973	No	in service	Red Coach with Freight Trucks	\$35,00
107	Coach	48	LK&P	later than 1973	Yes	in service	Yellow Coach - with generator	\$39,00
108	Coach	40	LK&P	later than 1973	No	out of service	Stripped - not serviceable / Poor Roof	\$25,00
109	Coach - Handicap	24	LK&P	later than 1973	No	in service	Equipped with Rincon Wheel Chair Lifts and Conductor Station	\$42,50
Flat	MoW Flat	X	ACF?	circa 1942 - 43	x	in service	Maintenance of Way use - ex Oahu Railway, probably ex Military	\$ 6,50
Hopper	Hopper	X	unk	circa 1910	Х	Display	Wine hopper gates - 3 bay hopper - Nice interpretive piece	\$ 6,00
Qty - 3	30' Flat Car Frames		Estimate \$3250 EA				*Frames that could be used to construct new 3' gage passenger cars	\$9,75
	* - As these frames ca	n serve as a f	rame for new car co	nstruction, their v	worth is more			
	in line with that value	than as scrap	weight as frame ten	nplate or frames	for 3ft gage cars			
	are difficult and costly	to come by	and to fabricate new	would be costly	and in line with			
	the estimated FMV of	these used fr	ames. Valued as 50%	6 of the value of a	an operable flat o	ar.		
TOTAL ROLL	ING STOCK							\$311,75

Passenger cars 101 – 104 were built by Keystone in Irwin, PA utilizing old flat car frames to which were constructed bodies of Cortensteel and molded fiberglass with operable vertical sliding windows. The coach bodies were constructed by Harliss Specialties of Pittsburgh, PA and equalized passenger trucks were obtained from the East Broad Top Railroad where the equipment went through shake down testing prior to shipment to Hawaii. The first 2 coaches arrived with Locomotive #1 in 1970 with coaches 103 & 104 arriving sometime later with Locomotive #3. Coaches 105 – 109 were built at a later date by the LK&P (Sugar Cane Train) at some later point according to the current railroad General Manager Iolani Kaniho. They differ from the earlier cars in having an old style freight car truck and bodies / frames that do not include truss rod construction. These cars are rather unique and

significant to operation in Hawaii as they were designed to resemble the early Hawaiian railroad passenger cars known as Kalakaua coaches of the late 1800's.

As passenger cars of this gage are rather rare and must either be rebuilt from older cars or built new they have a value for those operations utilizing 3' gage equipment. There are three 30' flat car bodies in inventory which are probably ex Oahu Railway and possibly exmilitary cars from WWII. The value of these cars exceeds any scrap price in that they could be utilized as frames for new or replacement passenger car construction. As the railroad regains its footing as a premier tourist attraction they could be used for additional capacity, first class cars or other specialty cars for food vending or gifts as an example.

While there are a number of comp sales to draw from, most do not directly correlate to the simple semi-open cars of the Sugar Cane Train. New cars have been quoted for as much as \$400,000 but these are fully equipped to a luxury level with fully compliant and modern safety appliances. The Sugar Cane cars are old conversions of obsolete flat cars. Used cars have been estimated by industry experts as 50% the cost of new built cars quoted in the \$85,000 to \$175,000 range. However, again, with the obsolete appliances of the Sugar Cane cars, general condition and limited and specialized market, a conservative estimate of the Fair Market Value would be at the low end of this estimate even though there is a proven market for new high end cars that have been built by Hamilton Manufacturing of Burlington, WA for the White Pass & Yukon Railway in the \$200,000 range. Therefore, a baseline FMV was determined to be \$42,500. Coach 109 was determined to meet this minimum baseline as it has wheelchair lifts for handicapped accessibility and a conductor station. All other cars were prorated on this baseline with value given to the Coach 105 (open/enclosed air conditioned car) and Coach 107 which appears in good condition and has a generator mounted under it for electric power. Other coaches in less presentable condition and repair were assigned correspondingly lower values.

Maintenance of Way flat cars were located with sales of 3ft gage flats happening in November 2011 as noted from Ozark Mountain Rail for \$11,000EA and \$9,500EA. Currently there are three flats advertised from \$9,500 to \$6,500 depending on condition and size. Based on this information it is estimated that the flat car at Puukolii yard in poor condition is valued at the lesser of these comps at \$6,500. While inspecting the property it was noted there were three flat car frames piled up near the shop. Upon closer review it was decided to value these frames at 50% of the value of a complete car. This being that the frame is the core of the car and these frames could possibly be used as frames for building new passenger cars in the future by the Sugar Cane Train or others in need of cars at less than the new manufactured quoted prices. These are bare frames less trucks and appliances.

A hopper car was noted at Puukolii Station and that was also valued at the same price as the vintage narrow gage freight flat cars as the car is in reasonably complete condition and is an excellent example of a narrow gage hopper of circa 1910 vintage, being a nice



historical/interpretive piece or potentially a candidate for a vintage narrow gage interpretive freight train.

Motor Vehicles & Rubber Tire Equipment

Motor Vel	hicles & Ru	bber Tire Equi	pment						
Year	Make	Model	Color	Type	VIN#	Miles	Condition	FMV	Notes
1992	Chevy	2500	Silver	Pick Up	1GCFC24HXNZ186825	104,005	Fair	\$ 1,507	Not currently in use
1991	Ford	F-350 XL 4x4	White	Flat Bed	1FTHR36H9MKA66413	85,860	Poor	\$ 1,382	Has tool boxes, hose reel and welder mounted on bed
1984	Dodge	Ram	Gray	Flat Bed	1B7MD34W9ES321858	67,671	Poor	\$ 1,175	Has dual wheels and tool boxes mounted on flat bed
2003	Ford	F-250	Silver	Pick Up	1FTNF21L63EB18795	46,785	Very Good	\$ 5,506	In Service
2005	Ford	F-250	Silver	Pick Up	1FTSX21505EC34126	88,713	Very Good	\$ 14,284	In service
1981	GMC	6000	Green / Yellow	Bus	T16PAAV60B815	17,531	Poor	\$ 1,125	Shuttle Bus - Poor condition - 22500 GVW
1980	Grove	9 Ton	Yellow	Crane		860 Hours	Fair	\$ 6,800	Model RT58EX ? Operable but old - probably ex Military
2004	Case	580M	Yellow	Back Hoe		463 Hours	Very Good	\$ 36,000	Has 12" and 24" bucket attachments - Only 463 Hours
TOTAL								\$ 67,779	

FMV was determined by Kelley Blue Book valuation for private sale in the Lahaina, HI market for motor vehicles 1992 and newer. Older models were not available through that source. The 1991 Ford F-350 was determined through Edmunds.com for the same criteria as the newer models and the 1984 Dodge was priced through NADA in order to get a good comp valuation. FMV for the 1981 GMC bus was harder to come by and these vehicles tend to have both an old bus value as used for shuttles and for storage shed purposes. Several near comps were found, but generally buses older than 1991 were hard to find. Values between \$1,155 to \$3,000 were found for similar vehicles and a 25% discount was taken off the most comparable comp which matches an operable comp bus sale price to within \$30.

The 9 ton Grove Hydraulic Crane is represented as operable and dates to 1980 and may have been ex — military according to Norm Jensen of RPK Industries, a noted crane authority. Several crane comps were found including the following:

- P&H 25 ton sold for \$8,000 recorded 4-10-11 by Ozark Mountain
- Koehring Crane sold for \$26,000 recorded by Ozark Mountain 11-20-13
- Several Rail mounted Burro Cranes sold for \$6,000 \$8,000 EA during 2011 2013
- Zadoon Equipment in Arnold, MD is currently asking \$8,000 for an RT58

Based on this information the crane is assigned an FMV based on the latest and best comparable asking price of \$8,000 with a 15% discount.

The Case 580M backhoe is a nice piece of equipment with a 24" and 12" bucket attachment. Three comps were found from \$28,500 to \$42,500. The best comp was an asking price of \$33,525 FOB Honolulu for a machine with 3740 hours and the FMV was based on this price, with an increased adjustment due to the low operating hours while taking into consideration the other retail pricing as a guideline.

MOW Equipment

MOW						
QTY						
	Equipment	Mfg	<u>Serial</u>	FMV EA	FMV Exteneded	<u>Notes</u>
1	Tamper	Canron STMJE	5380051	\$20,000	\$20,000	Not operable
1	Track Broom				\$ 5,000	Operational
	<u>Tools</u>					
4	Track Jacks			500	\$ 2,000	no photo
1	Rail Drill - gas			1450	\$ 1,450	no photo
1	Rail Saw - gas			750	\$ 750	no photo
Misc	picks, shovels etc.			misc	150	no photo
	TOTAL MOW				\$ 29,350	

There were two pieces of standard maintenance of way equipment, albeit being 3 foot gage. These are defined as on-track equipment that assists in the repair of the track and include the tamping machine and the track broom. Tooling consists of standard mechanical / manual tools for the necessary and specialized repair of railroad track and include the track jacks, rail drill, rail saw and miscellaneous picks, shovels, tamping bars and spike mauls.

The tamper price was generated off the price of a similar tamper for sale at Sterling Rail (http://sterlingrail.com) of Austin, Texas and is in conformance with generally accepted industry values. Condition was taken into account of the Sugar Cane Train tamper which needs considerable and somewhat unknown work and calibration to be placed back in service. With so many unknowns other than the fact that there is a market from time to time for 3ft gage tampers and MOW (Maintenance of Way) machinery the value was conservatively based on just under 50% of an operating tamper value.

A good comparable was not located for the track broom/washer. Although covered in vegetation making it difficult to inspect, it was represented as being operational. As such, and being a functional and integral part of the maintenance of way program, it has a value that represents a ballast regulator/broom of which in standard gage could be as much as \$75,000. However, a broom/regulator has different and more multiple functions beyond a brooming or grooming ability associated with track surface and ballast maintenance so it is not a very good comparison. As such, an arbitrary and minimal value of \$5,000 was set to this piece of equipment.

The other smaller mechanical equipment and tools are not just for 3ft gage but can be used for any gage as ordinary track tooling equipment. They were valued on generally noted and observed industry market prices from various suppliers throughout the United States as were the ordinary manual track tools consisting of picks, shovels and other more standard tools.

Equipment, Tooling & Supplies

	Description	Make / Model	Photo Reference	FMV EA	FMV Extended
Qty					
1	Gas Welder - Stick	Lincoln Arc welder	1103	1367.5	\$1,368
1	Electric Welder - Stick	Lincoln Wirematic 255	1098 - 1099	1080.5	\$1,081
1	Wire Feed Welder	Miller XMT 304 CC / CV	1106 - 1107	1861.5	\$1,862
1	Plasma Cutter	Thermal Dynamic EconoPak 50	1104 - 1105	300	\$300
1	Band saw	Rigid (no model # - see photo #1108	1108	750	\$750
1	Sand Blaster	Econoline - Photo 1109	1109	1000	\$1,000
1	Cutting Torch set with cart, gages and tanks	Unk - photo 1111	1111	462.5	\$463
1	Portable Generator - 5000 watt	Generac C 5000	1100	1575	\$1,575
1	Arc Welder	Airco Easy Arc AC/DC 250 amp	1101 - 1102	300	\$300
1	Milling Machine	Universal Kempsmith	1112 - 1113	10000	\$10,000
1	Milling / Drilling Machine	MSC	1114	2200	\$2,200
1	Vertical Drill Press	RIDGID	1116 - 1117	750	\$750
1	Dual wheel table grinder	Jet	1118	109	\$109
1	Dual wheel table grinder	Unknown	1119	87.2	\$87
1	18" lathe	LeBlond	1120 - 1121	6700	\$6,700
1	38" lathe	Niles	1122-1123-1124	10000	\$10,000
1	Gantry Crane	unk	1125	1099.5	\$1,100
2	Chop saws	DeWalt	1136	100	\$200
2	Cordless Drills	DeWalt	1137	39	\$78
1	large impact drill	Matco	1138	150	\$150
1	small impact drill	Chicago Pneumatic		120	\$120
1	Jack Hammer	Bosch with cart and tools	1139	\$ 1,020	\$1,020
1	Set of (2) Locomotive Jacks - Air	Duff - Norton Model 228	1127	1195	\$1,195
1	Set 25 ton hydraulic jacks	unk	1132	1300	\$1,300
1	Set 30 ton hydraulic jacks	unk	1132	1300	\$1,300
Misc	Chains, slings and straps	various	1133-1134-1135	1500	
1	Air Shop Air Compressor	10 HP	1140 - 1141	\$2,500	\$2,500
1	Tool box with miscellaneous tools	Kobalt 20 drawer / various tools	1131	\$ 2,450	
1	4 drawer Tool Box with tools	Craftsman box - various tools	1131	\$ 187	\$187
Misc	Assorted sockets and Wrenches	Various	1130	1500	\$1,500
misc	Assorted pipe fittings / nuts / bolts	Various	1128 - 1129	1000	\$1,000
1	Light Duty Utility Trailer	2 wheel ball hitch	1144 - 1145	550	\$550
1	Jackson portable tamper gas powered	Jackson / Tecumseh	1146 - 1147 - 1148	150	\$150
1	Heavy Duty Trailer	2 wheel for tamper	1148	850	\$850
1	Riding Lawn mower	Husqvarna Model YTH 1542XP	1149 - 1150	1000	\$1,000
1	2,000 gallon catchment tank for oily water	Unk	1151 - 1152	650	\$650
1	Small cemet mixer	Unk - 4 bag capy	1154	200	\$200
1	Radial Arm Saw	RIGID ?	1155	60	\$60
1	Table Saw	ACE	1156	400	\$400
1	6" Jointer	Delta	1157	600	\$600
1	Chop saw	Bosch	1160	575	\$575
1	10" Table saw	Delta	1158	300	\$300
1		Delta		50	
	Miter Saw	Delta	1161		
1	12" Planer		1162	175	\$175
1	Electric Air Compressor	Coleman 27gal. / 5 HP	1163	75	\$75
1	16-1/2" Drill Press	Delta	1165 - 1166	325	
1	Gas powered Air Compressor	RIGID 9 gallon - 135 psi	1167 - 1168	75	
1	Amplifier / Mixer	Sampson Model 883	1169	60	
1	Hi-Rail Golf Cart Inspection Vehicle	Cushman model 80 EZ GO with Hi-Rail Wheels	1176 - 1179	1000	\$1,000
1	Chain saw	Stihl D25	1180	150	\$150
1	Chain saw	Stihl 021 16"	1180	250	
1	Leaf Blower - gas	Stihl	1180	140	\$140
3	Stihl Gas Powered Trimmers	Stihl	1181	120	\$360
1	10,000 gal oil tank	Diesel Fuel Storage	1183	6750	\$6,750
1	10,000 gal diesel tank	Waste oil storage	1183 & 1185	6750	
1	3100 gallon reserve fuel tank - oil	Old Tank Car - No trucks	1184	1400	\$1,400
1	Welder / Generator on flat bed truck	Lincoln Ranger 8	1076	900	\$900
2 TOTAL	Tool boxes on Ford F-350 flat bed	Galvanized		275	\$55 \$ 77,93

Equipment and tooling was identified and categorized so as to develop a value associated with these assets. Primarily these are both standard maintenance tools for the repair of vehicles, locomotives and general maintenance. There were also many small items and miscellaneous tools that were in the shop but it was not practical to inventory all of them and they would have been very marginally valued as related to the overall valuation.

These assets were primarily valued based on comp sales of other similar tools and equipment.

Kaanapali Water Treatment / Reverse Osmosis System Kaanaplai 5800 gallon water tank with spout

At the Kaanapali Depot a relatively new reverse osmosis water treatment system was installed in order to treat the water in the storage tank for filling the steam locomotives. Treated water is very important for use in steam locomotives so that the interior of the boilers stay clean and free from sludge or other deposits that can cause erosion and premature wear. These assets were assigned an FMV based on being a system of water treatment, holding tank and spout as the Kaanapali Water Station. Valuation was made on the treatment system infrastructure and the value of the 5800 gallon tank with spout.

Industrial water treatment reverse osmosis systems are noted on the market for \$10,000 - \$13,000 with capacity of up to 10,000 gallons per day. With the 5800 gallon water storage tank, associated piping, pumps and spout the entire system is valued at \$15,000 which is basically the sum of the integrated parts minus a small discount. Systems priced are manufactured by Flexeon, Nelsen and Crystal Quest. The system upon some modifications could be transported for other industrial type uses and is not entirely subjected to railroad use.

SUMMARY OF VALUES

Summary Roll Up		FMV		
Rail and OTM	\$	355,380		
Unused Rail Inventory	\$	15,368		
Ties	\$	145,544		
Lahaina Turntable	\$	10,000		
Total Track Assets	\$	526,292		
Locomotives	\$	633,931		
Rolling Stock	\$	311,750		
Maintnenace of Way Equipment	\$	29,350		
Vehicles - Rubber Tired	\$	67,779		
Tooling	\$	77,937		
Kaanapali Water Station		\$15,000		
Total Eqpt. / Tools / Other	\$ 1,135,747			
*Total	\$ 1,662,039			
*This total does not include any buildings or real estate				



Assumptions and Limiting Conditions

The Consultant assumes no responsibility for legal matters, nor does he offer any opinion as to the validity of the title to the subject assets, which they assume to be free and clear of all encumbrances and, therefore, marketable. He does not guarantee the existence or non-existence of liens or encumbrances upon the assets.

Appraiser Certification

I, Douglas J. Ellison, representing Stone Consulting, Inc., do hereby certify that I have personally inspected the assets described within this Appraisal Report.

I further certify that I have no undisclosed interest in the property, either present or contemplated. My employment to make this appraisal and compensation is non-contingent upon the value reported herein.

To the best of my knowledge and belief, the statements contained herein are correct, subject to the limiting conditions set forth, and no important facts have been overlooked or withheld.

The estimates of value as indicated below represent my unbiased judgment of the Fair Market Value of the property subject to the assumptions and limiting conditions as set forth.

Total FMV Valuation of Rail Assets as of April 2015 is as follows (rounded):

ONE MILLION SIX HUNDRED SIXTY TWO AND THIRTY-NINE DOLLARS and no/100. (\$1,662,039.00)

Jouglas J. Ellison

Vice President Rail Operations

Stone Consulting, Inc

LOCOMOTIVES



Locomotive #1 Locomotive #3



Locomotive #45 – diesel

Locomotive #5 – Display



PASSENGER CARS



Coach 105



Coach 105 Interior



Coach 106





Interior – Coach 106



Coach 107





Seat motif – Coach 101



Coach 108 – Out of Service



Coach 108 – Interior – Out of Service





Coach 107 - Narrow Gage Freight trucks as applied to newer cars 105-109



Dual wheelchair lifts applied to Coach 109



Honda Gen-Set Coach 109

OTHER ROLLING STOCK



Maintenance of Way Flat Car





Three Bay Hopper Car – Historic Display Piece at Puukolii

Motor Vehicles



1991 Ford F-350 with tool boxes and generator



1984 Dodge D-350





1981 GMC 6000 Shuttle Bus



1992 Chevy 2500



2005 Ford F-250 Pick Up





1980's Grove Crane



2004 Case 580M Backhoe

Track & Right of Way



48 Foot Turntable at Lahaina built in 1987 by Lovestad of Seattle, WA



Typical Four Bolt Toe Style Rail Joint – 60AS Rail Section



Typical section of 60AS Rail in good condition



60AS rail with typical 6"x8" plate and spike pattern



Trestle with good timbers and rail





Track Section with ties measured out on 24" centers for steel OTM calculations



Rigid Plate #6 Frog – Puulokii Yard





Typical #6 Right Hand Turnout – Puukolii Yard



Rail Bound Manganese Frog – Puukolii Yard



New Track Section – circa 2007 – New Puukolii Wye



Spring Switch and Turnout – Puukolii – North Leg of Wye



MAINTENANCE OF WAY TRACK EQUIPMENT



36" gage Canron Tamper



Track Broom – Unknown



Track inspection vehicle converted from Golf Cart



Kaanapali Water Tank and Treatment Facility



5800 gallon Water Tank and Spout for fueling steam locomotive tenders



Kaanapali Reverse Osmosis Treatment System

Puukolii Shop Complex



General View of Shop Area

SELECTED EQUIPMENT & TOOLING



Miller 304XMT Welder



Stone Consulting, Inc.



RIGID Band Saw



Universal Kempsmith Milling Machine



LeBlond 18" Lathe



Niles 38" Wheel Lathe



Tooling – Wrenches and Sockets



Air Impact Tools



Shop Air Compressor



Husqvarna Lawn Tractor – Model YTH1542XP



2000 Gallon catchment Tank for Oily Water



General View of Wood Shop





ACE Table Saw



Delta Jointer





Bosch Chop Saw



Delta Miter Saw



Delta 12" Planer



Stihl Chain Saws and Leaf Blower





3100 Gallon Reserve Oil tank – Old Tank Car



2- 10,000 Gallon Tanks for diesel fuel and waste oil



Old Flat Car Frames





Appendix

- Track, Rail and Ties
- Locomotive Inspection Reports Anaka #1
- Locomotive Inspection Reports Myrtle #3
- Locomotive and Passenger Car Comps
- Equipment and Tooling Comps

Track, Rail and Ties

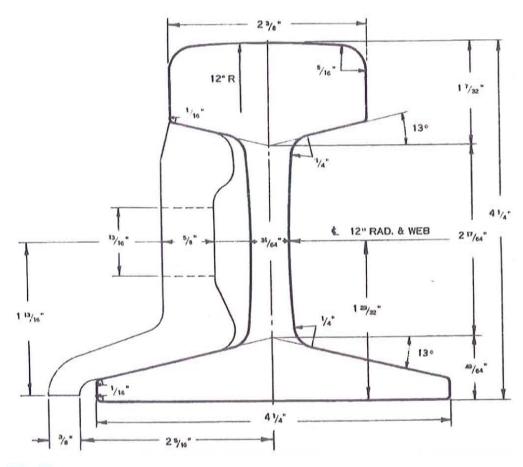
60-lb. A.S.C.E. Rail

RAIL

60 lbs. per yard 105.6 net tons per mile of track 50 feet of track per net ton Stock length 30'0"

ANGLE BARS

20" length 27.2 lbs. per pair 24" length 32.5 lbs. per pair





Unitrac Railroad Materials Inc.

	QTY	Unit	Conversion to Miles	net tons / mile	Total Net Tons	FMV	//Ton	To	otal FMV	Notes		
?ail	27,018	feet	5.117	105.6	540.36	\$	500	\$		Relay Rail Reuse	Kovalchick \$500/ NT	
											Kimes 500/Net To	on
			Weight (lbs) EA Size 6x8	Tie Spacing	Total Net Tons							
lates	27,518		6.55	24"	108.15	\$	500	\$	54,073	Assuming 20% of plates are larger than 6x8	Kimes New 60AS - \$60	0/ NT
incl -	+ 500 in inve	ntory										
			Weight (lbs) per pair Size 20"	Rail Length (feet)	Total Net Tons						Hammerhaed - Maui	
Bars	1801	Pairs	27.2	30	29.40	\$	500	\$	14,698	Assume 20% are 24" bars at 32.5 lbs / pair	Schnitzer - Oahu	
											Ferrous Scrap	No quot
			Weight (lbs) per pair Size 3/4 x 4-1/2	Bolts / Pair	Total Net Tons					Weight estimate to include lock washer	Autos03 / lbs	No quot
Bolts	7205	EA	1	4	3.6024	\$	214	\$	771			
			Weight EA (lbs) - 20% wastage	Avg. Spikes / Plate								
pikes	60,791	EA	0.65568	2.25	19.93	\$	214	\$		Assuming 24" Center Ties		
										2 / tie on tangent and 3/ tie on curves		
			10/-1-I-1 F 0 /II>		T-4-1 N-4 T					Wastage at 20% deduct		
	11	ГЛ	Weight EA (lbs)		Total Net Tons	Φ.	21.4	Φ.	11 202	landada forma and take and allow and balks	V labelala	
urnouts	11	EA	9680		53.24	\$	214	\$	11,393	Includes frogs, points and clips and bolts	Kovalchick - no use	
								TOT	AL FMV			
OTALS								\$	355,380			
OTALS								Ψ	333,300		=	
rack Hardy	vare (Invento	aru)	<u> </u>						FMV	Comp Price	┥	
Tack Hai uv	vare (invento	<i>y</i> y)		Per 200# Keg	# of Kegs	QTY	(ΕΔ)		IIVIV	KIMES STEEL & RAIL	=	
pikes - 5/8	l Rv6"			\$ 188.00	8	<u> </u>	(L/I)	\$	1,504.00	KINES STEEL & IVIL		
pikes 570				Per 100# Keg	0			Ψ	1,304.00		=	
pikes - 5/8	lv6"			\$ 94.00	6			\$	564.00		+	
pikes - 5/0	I		Price EA	\$ 74.00	0			φ	304.00			
rack Bolts	3/4 x 4-1/2		\$2.50 EA with lock washer	\$ 562.50	6			\$	3 375 00	1.85 / bolt		
Vasher	3/4"		\$ 0.49	Ψ 002.00	ŭ	1	000	\$		for 3/4 x 4" - no washer	-	
			5.17			<u> </u>		Ψ	.,	Washer - 3/4" price 49 cents	┪	
Jnused ties			\$ 58.97			1	160	\$	9,435	Stella Jones Quote 3-23-15	╡	
	K HARDWAF	RF (IN)	VENTORY)					\$	15,368		7	



QUOTATION

Date: March 31, 2015 Quote ML 2539 DU

Two Gateway Center, Suite 1000 603 Stanwix Street Pittsburgh, PA 15222 Phone: 800-272-8437 – Fax: 412-325-0208

Doug Ellison Stone Consulting, Inc. Warren, PA 814-688-0748 - cell

Reference: Quote Request 3-23-15

FOB: DuBois , Pa Shipping Mode: Truck

Delivery Schedule: See below Terms: Budget Number

Material: Oak/Mhw

Grade: AREMA specifications

Treatment: Creosote, 8# per cubic foot retention or refusal, per AWPA P2/P3-01

Special Note: See below

Quote#	DU 13974			Customer:	Stone Consulting Inc				
			8						
	SIZE DIMENSIONS LENGTH (Ft-In)				SPECIES	BF/EA	TOTAL	PRICE	PRICE
QTY				ACA SAMONES	BF	EACH	EXT		
1100	6	8	6	0	oak/mhw	24.000	26,400	\$ 58.97	\$64,867.00

Estimated Delivery:

110-120 days ARO

Must have PO by 4/7/15 to

hold.

NO END PLATING.

There is no freight included in the above costs, as no delivery location was specified. We have to buy them double end trimmed from the mill, can't run these across the trimmer. We cannot end plate as we have no machinery to apply them for this length and quantity.

I'm also charging for a restacking for treating the ties as they are a special size for the cylinder..

Micky Liguras

E-Mail: mliguras @stella-jones.com

THANK YOU FOR YOUR INQUIRY!

Regional Manager Sales

Phone: 800-272-8437

Locomotive Inspection Reports - Anaka #1

Locomotive Initial and No. Anaka # | owned by Railroads of Hawaii and operated by Railroads of Hawaii was placed in service following a 1472 Service Day Inspection on (start date) 7/6/10. This locomotive shall not be operated after (date) 7/6/25, or it shall not be operated after it has accumulated 1472 service days from the above start date, whichever comes first, at which time it shall be due for a 1472 Service Day Inspection. Year 10 11 12 0 23 Serv. days since last insp. 13 7/6 9/15/11/10/23 1/2 Annual Date Serv. days since last insp. 30 29 27 27 11/1/11 1/202/16 8/7 31 Service Day Date 31 31 31 Serv. days since last insp. 1/29/12 4/24 9/23 31 Service Day Date 31 29 Serv. days since last insp. 30 29 28 10/30 45/1 6/24 6/8 92 Service Day Date 30 31 25 Serv. days since last insp. 31 11/30 3/1/ 8/12 31 Service Day Date 29 Serv. days since last insp. 30 31 12/31 4/11/1 9/29 31 Service Day Date Serv. days since last insp. 17 31 5/4/1 92 Service Day Date Serv. days since last insp. 31 Anaka
Total Days = 706
Service Days Remaining 6/15/11 31 Service Day Date Serv. days since last insp. 31 Service Day Date Serv. days since last insp. 92 Service Day Date Serv. days since last insp. 31 Service Day Date Serv. days since last insp. 31 Service Day Date Serv. days since last insp. Annual Date 138 TOTAL 150 237 69 A copy of this record shall be filed with the Regional Administrator after 31 December and prior to 31 January of each year. de a Kil Signed Officer in Charge

Form No. 1 31 and 92 Service Day Insp	pection Report
Date of 6-8-14 Owner ZAILROADS OF	= HAWAII Locomotive Initials ANAKA
Inspection Operator RAIL ROADS	of HANAYocomotive No.
31 and 92 Service Da	v Requirements
Instructions: Non-complying conditions shall be repaired and this report approved before the locomou could be discovered by a reasonable inspection; (2) Fair - Functioning less than optimally but safe	ve is returned to service. Where condition is called for enter either: (1) Good - No defects which
regulations. In any case N/A means - not applicable.	and suitable and not in violation of the regulations; or (3) Poor - Not in compliance with the
Was boiler washed? YES	Were steam leaks repaired?
Were water gauge and valve passages cleaned? YES	Condition of draft system and draw gear. GOOD
Were gauge cock passages cleaned?	Condition of running gear. GOOD
Were all washout plugs removed and inspected? 4ES	Condition of driving gear. RODD
Were arch tubes, circulators, siphons and water bar tubes	Condition of spring/equalizing system. 2000
cleaned and inspected?	Condition of tender running gear.
Were fusible plugs removed, cleaned & inspected? YES	Condition of brake equipment.
Were staybolts hammer tested?	Were injectors tested and in good condition? 4E5
Were all broken staybolts replaced? 1/4	Was feedwater pump tested and in good condition? 11/4
/ 92 Service Day R	equirements 7
Date of previous 92 Service Day Inspection 1-2-2014	Were tubular water glasses renewed?
Safety relief valves pop at / +/ psi / +O psi psi	Were air compressor(s) orifice tested?
Were all steam gauges tested?	Was main reservoir tested for leakage? YES
Were all air brake gauges tested?	Were brake cylinders tested for leakage? 4ES
Were steam gauge siphon pipe(s) cleaned? YES	Was tender tank entered and inspected?
If no 92 Service Day Inspection is done, enter number of service	e days used since last 92 Service Day Insp
do Co	
The ab	ove work has been performed and the report is
() INSPECTOR approv	ed. St. C. III
+x. 0. 1	OFFICER IN CHARGE
INSPECTOR	

to end of NIE Statem

Form No. 3 Annual Inspe	ection Report
Date of 1-2-14 Owner FAU POADS	STHAWAII Locomotive Initials ANAILA
Inspection Operator RAIL ROAL	SOF HOWELI Locomotive No
Instructions: Non-complying conditions shall be repaired and this report approved before	e the locomotive is returned to service. Where condition is called for, enter either. (1) Good - No defe
which could be discovered by a reasonable inspection; (2) Fair - Functioning less than of the regulations. In any case N/A means - not applicable,	nimally but safe and suitable and not in violation of the regulations; or (3) Poor - Not in compliance w
	temperature of 79 degrees F.
Was boiler washed?	Were steam gauge siphon pipe(s) cleaned? 455
Were water gauge and valve passages cleaned?	Were steam leaks repaired? YES
Were gauge cock passages cleaned? 4ES	Were tubular water glasses renewed? N/A
Were all washout plugs removed and inspected? YES	Were fusible plugs removed, cleaned & inspected? 75
Were arch tubes, circulators, siphons and water bar tubes	Flexi caps removed on (date)
cleaned and inspected? YES	Were all air brake gauges tested? 725
Thickness of arch tubes 1/4; Water bar tubes N/4	Main reservoir hydropsi, hammer
Dry pipe thickness ;Circulator thickness 1/4	NDE, Drilled
Were water column passages cleaned and inspected? M/+	Were brake cylinders tested for leakage.
Was boiler entered and inspected?	Was main reservoir tested for leakage.
Were drilled flexible staybolt telltale holes tested?	Were air compressor(s) orifice tested?
Were staybolts hammer tested?	Condition of driving gear.
Were all broken staybolts replaced?	Condition of running gear. GOOD
Were longitudinal lap seams inspected? ///	Condition of draft system and draw gear. CODD
Was smoke box entered and inspected?	Condition of spring/equalizing system.
Safety relief valves pop at 175 psi psi psi	Condition of brake equipment.
Were injectors tested and in good condition? YE	Condition of tender running gear.
Was feedwater pump tested and in good condition?	Was tender tank entered and inspected?
Were all steam gauges tested? YES	
SAM Some	The above work has been performed and the report is
INSPECTOR	approved.
	OFFICER IN CHARGE
INSPECTOR	

Locomotive Air Brake Cleaning, Testing and Inspection Record

COMPAGNE	SERVICE	Previous	Current Annual	Inspection	Inspection	Inspection	Inspection	Notes	
EQUIPMENT	PERIOD	Inspection	Annuui Date	Date	Date	Date	Date		
AIR COMPRESSOR ORIFICE TEST	92 service day	6/27/13	1/2/14						
AIR GAUGES	92 service day	6/27/13	1/2/14						
MAIN RESERVOIR LEAKAGE	92 service day	6/27/13	1/2/14						
BRAKE CYLINDER LEAKAGE	92 service day	6/27/13	1/2/14			·	· · · · · · · · · · · · · · · · · · ·		
FILTERS	Annual Inspection	10/23/12	1/2/14						
DIRT COLLECTORS	Annual Inspection	10/23/12	21/2/14						
MAIN RESERVOIR HYDRO, HAMMER, NDE	Annual Inspection	Brieles	Drilled						
BRAKE VALVES	368 service days or second	0/23/12	1/2/14					waren da dikiran	
			1 /				,	•	

FRA Form 4	#1				
Locomotive No. A		SPECIFICAT		1	_
Boiler built by: U.	naka ; Boiler No.	540	; Date built	August 198	5
	Iroads of Haw				
Operated by: Ra	Isacks of Haw	ii, Inc.			20
Type of boiler: Set	ilroads of Haw	S. I. Done	Da Lahaina	, Kaanapali +	Pacific KK
Type or boner. 3 h	raight Top Radial,	orages; Dome, w	iere located: 2h	d Course	
Where condition is called Obvious wear and/or co.	ed for, use: New - New materia	PILER SURVEY	DATA ler survey; Good - Little	or no wear and/or corrosi	on; Fair -
		Boiler Shell She	ets		
Material:	Type of Materi	al Car	bon Content	Condition	
1st course (front)	(wrought iron, carbon steel, or		- (19	
2nd course	SA 515 Gr SA 515 Gr		,26	Good	
3rd course	_ J/1 313 GF		.26	Good	
Rivets			n/a	/-	
2001.510	Documentation of how mater	ial was determined sha	II/A ll be attached to this form	n/a	
			a se ariaenea to this to in		
Measurements:	At Seam	Thinnest			
Front flue sheet,	thickness n/a	.508			
1st course,	thickness .524		ID 42 1/8"	,ID	
2nd course,	thickness .529	, 514,	ID 42 1/8"	,ID	
3rd course,	thickness NIE		ID_	,ID	
Is boiler shell circul	ar at all points? Yes		When courses are no	t cylindrical give ID at eac	h end
	tened, state location and a				
	ned areas of shell stayed a		ressure allowed by	this form?	
				diis form:	
Water Space at Mu	d Ring: Sides 2 1/2",	Front 2 1/2", B	ack 2 1/2 "		
Width of water space	ce at sides of fire box me	asured at center	line of boiler: Front	3 ", Back 3	3 11
Firebox sheets:		ox and Wrapper			
Rear flue sheet	Thickness	Mate		Condition	
Crown	·750 ·513	SA 518	6 Gr 70	Good	
Sides	.514		C/SA 516 G-70	Good	
Door	.530		15A 516 Gr70	Good	
Combustion chamber		_ SA 28	B5 Gr C	4000	
Inside throat	N/E				
and an oat	1016				
Wrapper sheets:					
Throat	.547	5A 28	Sarc	Good	
Back head	.533	SA 515	Gr 70	G00d	
Roof	.525		Gr 70	Good	
Sides	.525	SA 515	Gr 70	Good	
Front Tube	.519	5 A 285	Grc	Good	
ALCOHOLD STATE OF	wegood. O				

Middle cylindrical portion	pieces (not men	iding scain weils, if any),	Top opening diameter 14.5
winding cynnamical portion	1-10 20:25", Up	pening in boiler shell, longitu	idinally - 20.25
Dome sheets:	Thickness	Material	Condition
Base	N/E	iviaicitai	Condition
Middle cylindrical portion		SASAT C.C	6
Top	1.250	SA 285 Gr C SA 285 Gr C	Good
Lid	1.750	3A 265 Gr C	Good
Boiler shell liner for	1.750	5A 516 G-70	600d
	270	54005 (0	z 1
	370	SA 285 Gr C	Good
Is liner part of longitudina	I seam? No		
Arch Tubes, Flues, C	Circulators, Thermic S	iphons, Water Bar Tubes,	Superheaters, and Dry Pipe
		; number	
	, wan unexitess		; condition
Flues:			
OD 2" wall thickne	ess 95 length	1085" mmher 9	6; condition New 4/2
OD wall thickne	ess length	number 1	; condition
OD wall thickne	ess length	, number	; condition
, wan imekin	c33, lengui	; number	; condition
Circulators: OD N/E	, wall thickness	; number	; condition
Thermic sinhons: num	her N/E ·	i de la compania	13 0.4.
neck	(OD	plate thickness	; condition
neck	(OD,	neck thickness	; condition; condition
Water bar tubes: OD <u>N</u> Superheater units directl	y connected to boiler	with no intervening valve:	
Water bar tubes: OD <u>N</u> Superheater units directl	y connected to boiler	with no intervening valve:	
Water bar tubes: OD_ <i>N</i> Superheater units directly Type_ <i>N/E</i> , Tul Dry pipe subject to pressi	y connected to boiler wall this wall	with no intervening valve: ckness; numbe	er; condition
Water bar tubes: OD_ <i>N</i> Superheater units directly Type_ <i>N/E</i> , Tul Dry pipe subject to pressi	y connected to boiler wall this wall	with no intervening valve: ckness; numbe	er; condition
Water bar tubes: OD_ <i>N</i> Superheater units directly Type_ <i>N/E</i> , Tul Dry pipe subject to pressi	y connected to boiler wall this wall	with no intervening valve:	er; condition
Water bar tubes: OD_ <i>N</i> Superheater units directly Type_ <i>N/E</i> , Tul Dry pipe subject to pressi	y connected to boiler wall this wall wall this	with no intervening valve: ckness; number	er; condition
Water bar tubes: OD_N Superheater units directly Type_N/E, Tul Dry pipe subject to pressu OD_3.5", wall thickn	y connected to boiler wall this wall wall this	with no intervening valve: ckness; numbe	er; condition
Water bar tubes: OD_N Superheater units directly Type_N/E, Tul Dry pipe subject to pressi OD_3.5", wall thickn Stay bolts:	y connected to boiler vector be OD, wall this ure: less_, 235, material	with no intervening valve: ckness; number alSAIO6; conditions wn Bar Rivets, and Braces	er; conditionition
Water bar tubes: OD_N Superheater units directly Type_N/E, Tul Dry pipe subject to pressi OD_3.5", wall thickn Stay bolts:	y connected to boiler vector be OD, wall this ure: less_, 235, material	with no intervening valve: ckness; number alSAIO6; conditions wn Bar Rivets, and Braces	er; conditionition
Water bar tubes: OD_N Superheater units directly Type_N/E, Tul Dry pipe subject to pressi OD_3.5", wall thickn Stay bolts:	y connected to boiler vector be OD, wall this ure: less_, 235, material	with no intervening valve: ckness; number alSAIO6; conditions wn Bar Rivets, and Braces	er; conditionition
Water bar tubes: OD_N Superheater units directly Type_N/E, Tul Dry pipe subject to pressi OD_3.5", wall thickn Stay bolts:	y connected to boiler was be OD, wall this wre: Stay Bolts, Croser, avg. space, avg. space, avg. space, avg. space, ber stay bolt dia. N/E	with no intervening valve: ckness; number al_SA 106; condition with no intervening valve: ckness; number	ition Good ; condition Good ; condition Good ; condition Good
Water bar tubes: OD_N Superheater units directly Type_N/E, Tul Dry pipe subject to pressi OD_3.5", wall thickn Stay bolts:	y connected to boiler was be OD, wall this wre: Stay Bolts, Crosser, avg. space, avg. space, avg. space, avg. space, spacing, spacing, avg. spacing, spacing	with no intervening valve: ckness; number al_SA 106; condition with no intervening valve: ckness; number	er; conditionition
Superheater units directly Type N/E Tule Type N/E Tule Tule Tule Type N/E Tule Tule Type N/E Tule Tule Type N/E Tule Tule Tule Tule Tule Tule Tule Tule	y connected to boiler was be OD, wall this ure: Stay Bolts, Crosser, avg. space, avg. space	with no intervening valve: ckness; number al_SA 106; condition with no intervening valve: ckness; number	ition Good ; condition Good ; condition Good ; condition Good
Superheater units directly Type N/E, Tulk Type N/E,	y connected to boiler was be OD, wall this wre: Stay Bolts, Crosser, avg. space, avg. space	with no intervening valve: ckness; number al_SA 106 ; condition with no intervening valve: ckness; number al_SA 106 ; condition with no intervening valve: ckness; number condition in SA 106 ; condition with no intervening valve: ckness; number ckness; number ckness; condition with no intervening valve: ckness; number ckness; number ckness; condition with no intervening valve: ckness; number ckness; number ckness; number ckness; condition with no intervening valve: ckness; number ckness; number ckness; condition with no intervening valve: ckness; condition ckness	ition Good ; condition Good ; condition Good ; condition Good
Superheater units directly Type N/E Tuber	y connected to boiler was be OD, wall this ure: Stay Bolts, Crosser, avg. space, avg. space	with no intervening valve: ckness; number al_SA 106 ; condition with no intervening valve: ckness; number al_SA 106 ; condition with no intervening valve: ckness; number al_SA 106 ; condition with no intervening valve: ckness; number al_SA 106 ; condition with no intervening valve: ckness; number al_SA 106 ; condition with no intervening valve: ckness; number al_SA 106 ; condition with no intervening valve: ckness; number al_SA 106 ; condition with no intervening valve: ckness; number al_SA 106 ; condition with no intervening valve: ckness; number al_SA 106 ; condition with no intervening valve: ckness; number al_SA 106 ; condition with no intervening valve: ckness; number al_SA 106 ; condition with no intervening valve: characteristics and Braces characteristics and Braces characteristics and Sa 106 ; condition al_SA 106	ition Good ; condition Good ; condition Good ondition
Superheater units directly Type N/E, Tule N/E,	y connected to boiler was be OD, wall this wre: Stay Bolts, Croser, avg. space, avg. space	with no intervening valve: ckness; number al_SA 106 ; condition wn Bar Rivets, and Braces sing_5" X 5" g_5.5" X 5.625" X ; condition x	condition; condition; condition; condition; condition; condition
Superheater units directly Type N/E, Tule N/E,	y connected to boiler was be OD, wall this wre: Stay Bolts, Croser, avg. space, avg. space	with no intervening valve: ckness; number al_SA 106; condition wn Bar Rivets, and Braces sing_5" X 5" ng_5.5" X 5.625" X ; condition x	condition; condition
Superheater units directly Type N/E, Tule Type N/E,	y connected to boiler was be OD, wall this wre: Stay Bolts, Croser, avg. space, avg. space	with no intervening valve: ckness; number al_SA 106; condition wn Bar Rivets, and Braces sing_5"X_5" g_5.5" X 5.625" ; x; condition wn Bar Rivets, and Braces sing_5" X 5" g_5.5" X 5.625" ; x; x	condition condition condition condition condition condition condition condition condition
Superheater units directly Type N/E, Tule N/E,	y connected to boiler was be OD, wall this wre: Stay Bolts, Croser, avg. space, avg. space	with no intervening valve: ckness; number al_SA 106 ; condition wn Bar Rivets, and Braces sing_5" X 5" g_5.5" X 5.625" X ; condition x ; conditio	condition; condition; conditionconditioncondition

大兴 Staybolts in firebox are 1.250" Diameter which supports an area of $7.562" \times 6"$.

	Number	Total Area Stayed	Actual	Equivalent Direct Stay
Backhead	12@ 1 1/4"D	451.74 in sq	14.726 in 59	13.586 in sq
Throat sheet	50 1 18"D	102.3 in sq	4.97 insq	4.97 in 59
Front tube sheet	14@1'4"D	445 insq	17.178 insq	15.617 insq
				<u> </u>

	Safe	ty Valves, Heating St	urface, and Grate Are	a
Safety valves:	Total number	of safety valves on lo	ocomotive 2	
Valve Size	Manufacture	7	No. valves of this size	ze and manufacture
144 "	Kunkle	•	2	
			· · · · · · · · · · · · · · · · · · ·	
TT4: - 0 - 6				
Heating Surface:	and a Carterian Carterian			
rieating surface, as p	part of a circulating	system in contact on on I, shall be measured on	e side with water or wet s	steam being heated and on the other
side with gas of fell	actory being cooled	i, snan de measured on	the slot receiving heat.	
Firebox and Comb	oustion Chamber	41.86	square feet	
Flue Sheets (less fl		15.86		
Flues	, <u>, , ,</u>	404.9	square feet	
Circulators `			square feet	
Arch Tubes		Manufacture in the second seco		•
Thermic Siphons		######################################	square feet	
Water Bar Tubes			square feet	
Superheaters (front	end throttle only)	square feet	
Other	•		square feet	
Total Heat	ing Surface	462.63		
Grate area: 9.9	square fee	t	***************************************	
	Water Level	Indicators, Fusible P	lugs, and Low Water	Alarms
Height of lowest re	ading of gauge gl	lasses above crown sl	heet: 3 1/4"	3 1/4 "
Height of lowest re	eading of gauge (cocks above crown sl	neet: 3 1/4 "	
Is boiler equipped	with fusible plug	(s)? <u>Y</u>	es numb	er
Is boiler equipped	with low water a	larm(s)?	aumh	er er

Calculations

Staybolt stresses:	
Stay bolt under greatest load, maximum stress	7160 psi
Location Backhead to Doorsheet	7.20 psi
Crown stay, crown bar rivet, or crown bar bolt under greatest load, max, stress	<u>6610</u> psi
Location Front Transverse Row	1/-
Combustion chamber stay bolt under greatest load, maximum stress	N/E psi
Location	
Braces:	* -
Round or rectangular brace under greatest load, maximum stress Location Backhead	<u>5985</u> psi
Gusset brace under greatest load, maximum stress	N/E psi
Location	psi
Shearing stress on rivets:	
Greatest shear stress on rivets in longitudinal seam	N/E psi
Location (course #) ; Seam Efficiency	
Boiler shell plate tension:	
Greatest tension on net section of plate in longitudinal seam	_8425 psi
Location (course #) 1st + 2nd; Seam Efficiency . 9	<u> </u>
, 9 used for welded seam not having reinforcement a	around smooth.
Boiler plate and components, minimum thickness required @ tensile strength:	groome smooth.
Front tube sheet	.342 @ 70000
1st course at seam . 245 @ 70000 1st course not at seam	·230 @ 70000
2nd course at seam . 245 @ 70000 2nd course not at seam	90000 @ مدد.
3rd course at seam N/E @ 3rd course not at seam	N/E @
Roof sheet . 220 @ 70000 Crown sheet	.384 @ 55000
Side wrapper sheets .410 @ 70000 Firebox side sheets	.433 @55000
Back head .384 @ 70000 Door sheet	433 @55000
Throat sheet 384 @ 55000 Inside throat sheet	N/E @
Combustion chamber N/E @ Dome, top	1.144 @55000
Dome, middle .151 @ 55000 Dome, base	N/E @
Arch tubes N/E @ Dome, lid	1.443 @ 70000
Water bar tubes N/E @ Thermic siphons	N/E @
Dry pipe	N/E @
Notes. 1. If tensile strength used is greater than 50,000 psi for steel or greater than 45,000 psi for	wrought iron supporting
documentation must be Idlusued.	
2. Any shell dimension less than 1/4" in thickness may not be adequate for support	of or by other structures,
particularly where threads or staybolts are concerned. Applicable codes should be co	onsulted.
Boiler Steam Generating Capacity: 6476.68 pounds per hour	
The following may be used as a guide for estimating steaming capacity:	
Pounds of Steam Per Hour Per Square Foot of Heating Surface: Hand fired 8 lbs ner br	
O. I. o.	
10 103. pc; m.	
Oil, gas or pulverized fuel fired 14 lbs. per hr.	

Record of Alterations

Description of Alteration

Date of Alteration

No alterations to report.	
	21-21-11
	7

Record of Waivers

Section No.

Waiver No.	Affected	Scope and Content of Waiver
-	A-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	

Calculations of	done by: Iolar	ni A. Kaniho ; Verified by: Iolani A. Kaniho
his document	verify the foregoing and all necessary ssure of 180	ng specifications is current and accurate. Based upon the information contained in calculations, this boiler of Locomotive (Initial & number) Anaka 548 is safe for psi.
Il. C	e, Kit	Date 7/16/2010; Id a Kit Date 7/16/2010
Locomo	tive Owner	Locomotive Operator
Make working indicating on v	g sketch here or a	attach drawing of longitudinal and circumferential seams used in shell of boiler, ed and give calculated efficiency of weakest longitudinal seam.
		construction with well reinforcements at anound

All seams welded construction with weld reinforcements not ground flush efficiency at time of construction by ASME code .9 PW-12

Locomotive Inspection Reports - Myrtle #3

Locomotive Initial	and N	o. M	yntl	e#	3	_ ow	ned by	Ra	ailro	eads	of	Hai	vaii	•	and	operated
by Railreads This locomotive shall	of l	Haw	aii dafar	Wa (dota)	s place	d in ser	vice fol	lowing	ga 1472	2 Servi	ce Day	Inspec	tion on	(start	date) 7	18/2011
he above start date, w	hichev	er come	es first	, at wh	ich tim	e it sha	ili be du	e for a	1472	ned and Service	er it na Day I	s accur nspect	muiated ion.	114/2	service	oays from
									ar		, , ,			Anna de la constantina de la constanti		
	11	12_	13	14							Ī					
Serv. days since last insp.	0	30														
Annual Date	7/6	7/20		6/24												
Serv. days since last insp.	29	27		15												
31 Service Day Date	420	9/16														***************************************
Serv. days since last insp.	30	30														
31 Service Day Date	12/19	12/6														
Serv. days since last insp.			29													
92 Service Day Date			3/5										1			
Serv. days since last insp.			3/							M	ynt	rle			334	
31 Service Day Date			48												1	
Serv. days since last insp.			Z							T	UTU	7 L	Juy	3	334	
31 Service Day Date													_			
Serv. days since last insp.		30		-						Se	וטמנ	ce	Da	15	Remo	while
92 Service Day Date		2/8										112		1		dulyg
Serv. days since last insp.		31										112	0)		
31 Service Day Date		3/25											The same of the sa	/		
Serv. days since last insp.		W									77	4.3	70			
31 Service Day Date		5/6														
Serv. days since last insp.																
92 Service Day Date																
Serv. days since last insp.																
31 Service Day Date																
Serv. days since last insp.																
31 Service Day Date																
Serv. days since last insp.																
Annual Date			-									PROGRAMMO NATIONAL PROGRAMMO NAT		Antonio es escessor		
TOTAL	59	178	82	15				Ì								

A copy of this record shall be filed with the Regional Administrator after 31 December and prior to 31 January of each year.

Signed Ala Kala Officer in Charge

LAST Periodic Betwee Closura.

Form No. 3 Annual Instr	ection Report		
	C Hawaii	Locomotive Initials	Mundle
Inspection 6 (2714) Operator Revieweds	of Hawaii	Locomotive No.	3
Instructions: Non-complying conditions shall be repaired and this report approved before	ore the locomotive is returned to service	. Where condition is called for enter	either: (1) Good - No defects
which could be discovered by a reasonable inspection; (2) Fair - Functioning less than	optimally but safe and suitable and not	in violation of the regulations; or (3) P	oor - Not in compliance with
the regulations. In any case N/A means - not applicable. Boiler hydrostatically tested to 77-5 psi, at a wate	r temperature of J	6 4	
Was boiler washed? Yes			Vac
Were water gauge and valve passages cleaned? 4eS		ge siphon pipe(s) cleaned	107
The state of the s	Were steam lea		111
			5/4_
Were all washout plugs removed and inspected? 925		ugs removed, cleaned & in	spected? 425
Were arch tubes, circulators, siphons and water bar tubes	Flexi caps remo		
cleaned and inspected? N/A		ke gauges tested? Yes	
Thickness of arch tubes <u>UA</u> ; Water bar tubes <u>VA</u>	Main reservoir		er
Dry pipe thickness;Circulator thickness;	NDE_		
Were water column passages cleaned and inspected? Yes		nders tested for leakage,	465
Was boiler entered and inspected? Yes		voir tested for leakage	405
Were drilled flexible staybolt telltale holes tested? ///		essor(s) orifice tested?	40
Were staybolts hammer tested?		ving gear. Cod	
Were all broken staybolts replaced? YES	Condition of ru		
Were longitudinal lap seams inspected? 945	Condition of dra	aft system and draw gear	Gal
Was smoke box entered and inspected? 465	Condition of sp	ring/equalizing system	Grad
Safety relief valves pop at 172psi 182psi psi	Condition of br	ake equipment.	1000
Were injectors tested and in good condition?	Condition of ter	der running gear. G	æd
Was feedwater pump tested and in good condition? N/A	Was tender tank	entered and inspected?	Yes
Were all steam gauges tested?		nation of the artist and part of the model and the second	
5 Fer Sogner	The above work has/be	een performed and the re	eport is
() (INSPECTOR a)	approved.	CIVX	
7 12	Mary Mary	OFFICER IN CHAR	CP
INSPECTOR	-	OFFICER IN CHAI	IGE
an total and a scale			

Locomotive Air Brake Cleaning, Testing and Inspection Record

EQUIPMENT	SERVICE PERIOD	Previous Inspection	Current Annual Date	Inspection Date	Inspection Date	Inspection Date	Inspection Date	Notes
AIR COMPRESSOR ORIFICE TEST	92 service day	3/5/13	6/27/14					
AIR GAUGES	92 service day	3/5/13	6/24/4					
MAIN RESERVOIR LEAKAGE	92 service day		6/22/14					
BRAKE CYLINDER LEAKAGE	92 service day	3(513	6/24/14					
FILTERS	Annual Inspection	7/20/1Z	6/24/4					
DIRT COLLECTORS	Annual Inspection	4/20/12	6(24/14					
MAIN RESERVOIR HYDRO, HAMMER, NDE	Annual Inspection	Tholp	6/24/4					
BRAKE VALVES	368 service days or second	3/5/13	6/22/14					

FRA Form 4

BOILER SPECIFICATION CARD Locomotive No. Myrtle; Boiler No. Dixon #1257 NB#2361; Date built
Boiler built by: Dixon Boiler Works Inc. Los Angeles, CA. Owned by: Railroads of Hawaii, Inc. Operated by: Railroads of Hawaii, Inc. Type of boiler: Straight Top Radial, Stayed; Dome, where located: 15+ course **BOILER SURVEY DATA** Where condition is called for, use: New - New material at the time of the boiler survey; Good - Little or no wear and/or corrosion; Fair -Obvious wear and/or corrosion. **Boiler Shell Sheets** Material: Type of Material Carbon Content Condition (wrought iron, carbon steel, or alloy steel) 1st course (front) SA 516 Gr 70 Good 2nd course SA 516 Gr 70 Good 3rd course Rivets n/a n/a Documentation of how material was determined shall be attached to this form. Measurements: At Seam Thinnest Front flue sheet. thickness ,497 n/a 1st course. thickness 512 \mathbb{D} 2nd course. thickness 447 D 3rd course, thickness ID .ID When courses are not cylindrical give ID at each end Is boiler shell circular at all points? Yes If shell is flattened, state location and amount NIA Are all flattened areas of shell stayed adequately for the pressure allowed by this form? Water Space at Mud Ring: Sides 2 'ん", Front 2 'ん", Back 2 'ん" Width of water space at sides of fire box measured at center line of boiler: Front 3", Back Firebox and Wrapper Sheets Firebox sheets: Thickness Material Condition Rear flue sheet 746 SA 285 C Fair Crown 502 SA 516 Gr 70 6000 Sides .501 SA 516 Gr 70 6000 Door .510 SA 516 Gn 70 Fair Combustion chamber NIE Inside throat NIE Wrapper sheets: Throat ·512~ SA 516 Gr 70 Back head SA 516 Gr 70 503 Roof 507 SA 516 Gr 70 Sides .515 SA 516 Gr 76 508 Front TUBE SA 516 Gr 70 Good

\$7k-Tot material

Dome is made of 2 pieces	Steam Dome	
Dome is made of 2 pieces Middle cylindrical portion - ID 2025	(not including seam welts, if any),	Top opening diameter 15
Middle cylindrical portion - ID 20.25	y, Opening in boiler shell, longi	tudinally - 20.25"
Dome sheets: Thicknes		
Base N/4	s Material	Condition
Middle cylindrical portion .374	5 A a are a	
Top 1.875		Good
*		Good
Boiler shell liner for	SA 105	Good
steam dome opening: .441	-	
Is liner part of longitudinal seam?	_SA 516 Gr 70	Good
- rate part of longitudinal scalli: 10	0	
Arch Tubes Flues Circulators T	Thormais Sinkana Wilda Da 20 1	
and and s, riues, circulators, i	hermic Siphons, Water Bar Tube	s, Superheaters, and Dry Pipe
Arch tubes: OD N/E, wall thic	kness	3*4*
wan die	; number	; condition
Flues:		
OD 2", wall thickness . 105	length 109"	26 134 5/
OD, wall thickness_	length number	; condition New 5/2011
OD, wall thickness	length number	; condition_
Circulators: OD N/E, wall this	knese mumbar	
	kiless, iluilber	; condition
Thermic siphons: number N/E:	plate thickness	
Thermic siphons: number N/E; neck OD	neck thickness	; condition
	, neck timekness	; condition
Superheater units directly connected to Type, Tube OD	o boiler with no intervening valve , wall thickness; numl	: per; condition
Dry pipe subject to pressure:		
OD 3 5" wall thickness 133		
OD_3.5", wall thickness .233	, material SA 108; cond	dition_Geed
Stav B	olte Crown Box Divisto 1 D	
Stay bolts:	olts, Crown Bar Rivets, and Brace	es .
Smallest crown stay diameter 1.125",	ava enacina 5 // V T/	condition Good
Smallest stay bolt diameter 1" ay	g. spacing 5.125" X 6"	
Smallest combustion chamber stay bolt d	g spacing 5.125 A B	; condition Good
		oandition.
Measurement at smallest diameter	spacing	condition
NAZARA AND STATEMENT OF THE STATEMENT OF		
Crown bar bolts & rivets:		
Roof sheet rivets, smallest dia. N/E, a	ve. spacing X	condition
Roof sheet bolts, smallest dia. N/E, av	e, spacing X .	condition
Crown sheet rivets, smallest dia. N/E	, ave. spacing X	; condition
Crown sheet bolts, smallest dia. N/E	, ave. spacing X	condition
Braces:		s Sectional Area of Braces
otl: Barren Carlo		
ote: Because of Mud Ring of	welded construction, b	ottom row of stay hate
in firebox are 1.250"	Diameter which support	, , , , , ,
7.562" x 5.125".	which suppor	ts an area of
x 3.125.		

Backhead	Number	Total Area Stayed	Actual 9, 9434 "	Equivalent Direct Stay 9.122 39"
Throat sheet	NIE		11 11 34	11122 39
Front tube sheet	14@ 1 1/8"D	444.1639."	13.92 39"	13.47 34"
The state of the s				
	Safe	ty Valves, Heating Su	rface, and Grate Ar	еа
Safety valves:	Total number	of safety valves on lo	comotive	,
Valve Size	Manufacturer	Service and servic		ize and manufacture
1 1/4 "	Kunkle		2	
Heating Surface:				
	art of a circulating	evetem in contest on	alda with west	
side with gas or refra	ctory being cooled	system in contact on one , shall be measured on t	be side with water or wet	steam being heated and on the other
	oring cooled	, shan be measured on t	ne side receiving near,	
Firebox and Combu	stion Chamber	41.86	square feet	
Flue Sheets (less flu		15.86		
Flues	140-447 Frank (* 1875) - 1875	404.9	square feet	
Circulators '		NIE	square feet	
Arch Tubes		N/E	square feet	
Thermic Siphons		NIE	square feet	
Water Bar Tubes		NIE	square feet	
Superheaters (front	end throttle only)	NIE	square feet	
Other	0.000	NIE	square feet	
Total Heatin	ng Surface	462.6		
Grate area: 9.9	4		s po 4 (190) (17) (17) (17) (17)	
viace areatt.	4 square feet			
	Water Level 1	ndicators Fuella Di	uma au d T XXV .	4.7 0000.0000
	Trater Devel 1	ndicators, Fusible Pl	ugs, and Low Water	Alarms
leight of lowest rea	ding of gauge gla	isses above crown sh	eet: 3 1/4 "	3 1/4 "
leight-of-lowest-rea	ading of gauge co	ocks above crown she	eet: 3 1/4 "	
s boiller equipped w	vith fusible plug((s)?	es , numb	er 2
s boiler equipped w	ith low water -1			
control equipped w	thaton water an	arm(s)?	O , numb	er

Calculations

Staybolt stresses:			
Stay bolt under great	est load, maximum stress		7122 psi
Location (イノム psi		
Crown stay, crown b	ar rivet, or crown bar bolt u	inder greatest load, max. stress	6610 psi
Location F			
Combustion chamber	N/E pri		
Location			N/E psi
Braces:			
Round or rectangular	brace under greatest load, ackhead	maximum stress	8372psi
Gusset brace under gr			
Location Location	catest toau, maximum stre	SS	N/E psi
Shearing stress on rivets:			
	on rivets in longitudinal sea	A11 (2.11	1 6
Location (com	TO #1	m ret vela	ed Construction psi
Boiler shell plate tension:	SC #)Ν/Α	; Seam Efficiency	
	et rection of late to the term	. 3* . 3	
Location (cour	et section of plate in longitu	idinal seam	7560 psi
Location (com	2CH) 14. 4- ZVB	; Seam Efficiency 100%	
Boiler plate and component	6 mini 41 + 1		
Boiler plate and component Front tube sheet	. 410 @ 70000	uired @ tensile strength:	
1st course at seam			.384 @ 55000
2nd course at seam		1st course not at seam	.220 @ 70000
		2nd course not at seam	.220 @ 20000
		3rd course not at seam	N/E @
		Crown sheet	.341 @ 70000
Back head	.410 <u>@ 70000</u> .376 @ 70000	Firebox side sheets	410 @ 70000
Throat sheet	341 @ 70000	Door sheet	.376 @ 70000
Combustion chamber		Inside throat sheet	N/E @
Dome, middle		Dome, top	1.404 @70000
Arch tubes	.136 @ 55000 NIE @	Dome, base	N/E @
Water bar tubes		Dome, lid	1.482 @ 70000
Dry pipe	NIE @	Thermic siphons	N16 @
	.042 @ 34600	Circulators	NIE @
documentation m	used is greater than 50,000 psi j	for steel or greater than 45,000 psi fo	r wrought iron, supporting
Any shell dimens	ion less than 1/4" in thickness	may not be adequate for support	of on burneth and
particularly when	e threads or staybolts are conc	erned. Applicable codes should be c	or or by other structures,
Boiler Steam Generating Cap	pacity: 6477	pounds per hour	
The full code at the second se		·	
The following may be used as a gui-	de for estimating steaming cap	acity:	
Pounds of Steam Per Hour Per Sq Hand fired			
Stoker fired	8 lbs.		
Oil, gas or pulveri		. per hr.	
on, gas or purver	14 lbs.	per hr.	

Record of Alterations

Description of Alteration

Date of Alteration

Flush Patch repair - Engineer's side Stayed area Locarion Row 7, Column 7. (Front to back) All welding preformed by JMI Inc +0 ASME Sect I	5.4.62011
Lingther - stayed aver-	JUNE 2011
LOCATION ROW 7. Column 7. (Front to hack)	
All welling and own of the	
THE WEISING PREFORMES BY JMI INC +0 ASME SECT I	
	· · · · · · · · · · · · · · · · · · ·

Record of Waivers

Section No.

Waiver No.	Affected	Scope and Content of Waiver
	-	
Calculations d	one by: Iolai	ni A. Kaniho ; Verified by: Iolani A. Kaniho
uns decument	erify the forego and all necessar sure of 190	ing specifications is current and accurate. Based upon the information contained in y calculations, this boiler of Locomotive (Initial & number) Myrtle *1257 is safe for psi.
Id C	h. Kil	Date 8/5/11; Id a. Kit Date 8/5/11
Locomoti	ve Owner	Locomotive Operator

All seams of all welded construction seams 100% efficient.

Locomotive and Passenger Car Comps

<u>Number</u> <u>Name</u>	<u>Туре</u>	<u>Builder</u>	Builders #	Date	Driver Diameter	6.15			
					Dilver Diameter	Cylinders	Weight	<u>Notes</u>	<u>Status</u>
1 Anaka	2-6-0	Porter	7398	1943	36"	12x18	51000	Ex Carbon Limestone 0-4-0T #36 Built as 38" gage	Operable - 766 days left on 1472 insp.
3 Myrtle	2-6-0	Porter	7397	1943	36"	12x18	50500	Ex Carbon Limestone 0-4-0T #35 Built as 38" gage	Oprtable - 1138 days left on 1472 insp.
45 Diesel	0-4-0	Fate-Root Heath	6166	1959		Diesel	60000	Ex Oahu Railway #45	Operable but needs torque converter
5	0-6-2T	Baldwin	32816	1908	33"	12x16	51000	Ex Oahu Sugar #5	Display Only

Summary of Value					
<u>Number</u>		<u>FMV</u>			
1	\$	286,630			
3		\$306,848			
45		\$35,000			
5	\$	5,453			
TOTAL	\$	633,931			

Comps are based on quote from Wasatch Rail quote dated 4-1-15 and Ozark Mountain Rail Equipment sales 4-1-15
36" gage equipment and comp survey done by TranSytems for steam engine sales October 2009 (attached as part of appendix)
Locomotive #5 appraised as a core at scrap price based on derived value of scrap steel.

Ozark Mountain

Asking
Notes

Ozark Mountain	<u>Asking</u>	<u>Notes</u>	
Steam Engines - 3ft. Gage			
Baldwin #44 2-8-0	\$760,000	Complete, unasse	mbled - needs restoration
Baldwin #40 2-8-0	\$1,385,000	Complete good co	ondition - operated in 2013
Shay #8 - 3 truck	\$910,000	operating but nee	ds complete restoration
Diesels - standard gage			
GE 45 ton diesel	Sold	\$15K	Ozark Mountain Rail 10-16-12
1953 Plymouth 40 ton	Sold	\$18K	Ozark Mountain Rail 12-9-11
GE 45 ton diesel	Sold	\$40K	Ozark Mountain Rail 4-3-11
GE 45 Ton - unrebuilt	Sold	\$22K	Ozark Mountain Rail 2-26-13

Wasatch

German Built \$365,000 Needs some assembly and new boiler \$500,000 Wasatch estimate for new boiler

*Asking \$865,000 Loco & new boiler but still needing assy and finishing

 $^{{}^*}$ This locomotive may not command an actual sale price that covers the investment to restore it to operation.

Steam Locomotive Comparables - sales and rehab data

Wilmington & Western 2-8-2 #37

aka Pacific Lumber 37

Seller: Wilmington & Western Railroad Buyer: Timber Heritage Association (NCLIA)

Sale Date: December 2004 \$50,000

http://visithumboldt.com/loggingmuseum/locomotive37.html

Notes:

Locomotive not in operational condition; estimated cost of overhaul \$50,000

by Scott Lindsay was \$235,000

Strasburg estimate for repairs at \$400,000

\$285,000

235,000

Kahului Railroad 2-6-2 #12 Narrow gauge

Seller: Silverwood Amusement Park (D.F. Barnhart, broker) Buyer: Colorado Historical Society (Georgetown Loop)

Sale Date: May 2005 Asking \$250,000

Sale price \$175,000

China SY-class 2-8-2

Qiang Ge Multipower International, Inc 12/12/2005 http://www.multipowerinternational.com/standard.html

Base locomotive, used condition; overhauled

350000 2009 updated price

Optional factory overhaul (in China)

included included

FRA inspections/Form 4

TBD

Domestic Chinese transportation Sea Freight and insurance to US port

57000

Departure port fees

5600

Total

Additional US transportation (est.) Rail via interchange (minimum)

\$8,000

\$412,600

Delivered valuation

420600 estimate

McCloud River Railroad 2-8-2 #18

Seller: McCloud River Railway
Buyer: V&T Railway Commission

\$420,000

\$412,600

Sale date: March, 2005

Notes:

Operating condition with valid FRA Form 4

Not including destination freight - to be stored @McCloud

35,000+ tractive effort, ex-logging locomotive

Steam Locomotive Comparables - sales and rehab data

Southern Pacific 2-6-0 #1744

Seller: New Orleans & Gulf Coast Railroad

Buyer: Rio Grande Scenic Last viewed: 12/12/2005

Notes: Current sale price (offer) \$800,000

Operating condition with current Form 4 and 90 days off of last flue

Approximately 1380 flue days left

Purchased July 2007

\$500,000 via verbal from Rio Grande Scenic

NKP 2-8-4 #763

Seller: Virginia Museum of Transportation

Buyer: Jerry Jacobsen Date: July, 2007

Notes:

Sale price

\$125,000 http://www.roanoke.com/news/roanoke/wb/125527

Locomotive able to be interchanged on own wheels

Not operational since 1960's. Complete rebuild pending

BML 1149 4-6-0 (Swedish)

Seller: Rail Merchants International

Buyer: open offer Current (October 2009)

Form 4 is in question on status

Offer price

\$175,000

Operational but unknown days on tubes

Seller: Negotiations underway

Cooperstown & Charlotte Valley 0-6-0

Seller: DF Barnhart

Buyer: Bill Miller (private individual)

Date: October 2009

Offer price

\$44,400 http://www.coopercrier.com/local_story_281083133.html

Notes: Locomotive in scrap condition; transported on flatbed trailer in pieces

Texas State Railroad #300 2-8-0

Seller: none (direct overhaul cost - documented) Buyer: none (direct overhaul cost - documented

Date: September, 2009

Locomotive value - operational, form 4 expired, wheels condemned

work consisted of Form 4, new tubes, replacement of pony truck, turn drivers

replace tender wheels, axles and bearings. Repaint and refinish

Base locomotive

\$125,000 without rehab

Rehab price:

\$243,941 TEA-21 rehab; as invoiced

Total Value

\$368,941

TranSystems Steam Locomotive Comparables Last Updated 10/20/09

Steam Locomotive Comparables - sales and rehab data

McCloud River Railroad #19 2-8-2

Seller: Ozark Mt. Railcar (McCloud River Railroad

Buyer: None (offered for sale)

Date: October, 2009

Locomotive in operational condition on McCloud River RR

Oil fired boiler, c/n 42000, empty weight 178,700 lbs, weight on drivers 140,000 lbs, driver diameter 48", tractive effort 36,680 lbs

, boiler pressure 185 lbs, cylinders 20" x 28", standard gauge,

Walschaerts valve gear, mechanical lubricators, power reverser, dual air compressors, 6 brake,

locomotive rebuilt in 2005 and has approximately 160 days of service.

Offer price:

\$645,000 http://www.ozarkmountainrailcar.com/baldwin_282_19.htm

Estimated sale

\$403,125 based on previous sale

Has not sold

Doug Ellison Stone Consulting P.O. Box 306 Warren, PA 16365



Re: Comparable sales/purchases narrow gauge passenger equipment

April 3, 2015

Mr. Ellison,

As per your request, please find some recent comparable sales statistics as per your request. It is noted that the bulk of the information provided comes from sales, proposed sales, actual sales and asking prices for like and similar equipment for the past 2 years. This list includes open air passenger cars, closed passenger cars and steam locomotives of the 36 inch narrow gauge type. All items would be FRA compliant and ready for service.

New Open Air Passenger Cars

There are a number of US based companies that will build new open air cars. Two companies have been contacted for this survey and the cost was between \$85,000.00 to \$175,000.00 per car, new, excluding shipping. These cars would include HDA accessible doors, some minor lighting and sound systems and seats for as many as 50 people per car, as few as 25 per car.

Closed Coach Riding Cars

Two companies provided estimates on closed coach indoor seating A/C equipped cars. These cars run anywhere from \$400,000.00 to as low as \$265,000.00 per unit, excluding delivery. These cars would also include lighting, sound systems and would seat no more than 50 people, no less than 25 and would be fully handicap accessible.

Used Open Air Coaches

There are not many open air coaches in 36 inch gauge on the open market. It is projected, based on scrap value of the steel and usability of the car that open air type cars would value at half the amount of new, like or similar cars. Based on this projection; it is assumed that a good condition, used open air coach would be valued at between \$42,500.00 and \$87,500.00.

There is one report that suggests some used cars were sold and or exchanged in the USA between two railroads for something in the \$10,000.00 per car range. These deals included many other items, not just open air cars. These deals may have also included good will and other tools and equipment.

Steam Locomotives

WRC currently has a 36 inch gauge German built steam locomotive on the market, asking \$365,000.00, still needs final assembly and installation of new boiler. WRC has built and installed new boilers on a number of narrow gauge steam locomotives. These new boilers alone ran in the \$400,000.00-\$500,000.00 range.

Equipment and Tooling Comps

Equipment & Tooling

Item #	Qty	<u>Description</u>	Make / Model	Photo Reference	FMV EA	FMV Extended	<u>Notes</u>
1	1	Gas Welder - Stick	Lincoln Arc welder	1103	1367.	5 \$1,368	\$2735 new - Val 50%
2	1	Electric Welder - Stick	Lincoln Wirematic 255	1098 - 1099	1080.	5 \$1,081	New \$2161 - Val 50%
3	1	Wire Feed Welder	Miller XMT 304 CC / CV	1106 - 1107	1861.	5 \$1,862	New \$3723 - Val 50%
4	1	Plasma Cutter	Thermal Dynamic EconoPak 50	1104 - 1105	300	0 \$300	Based on used tool market
5	1	Band saw	Rigid (no model # - see photo #1108	1108	750	0 \$750	Based on used tool market
6	1	Sand Blaster	Econoline - Photo 1109	1109	100	0 \$1,000	New \$2000 - Val 50%
7	1	Cutting Torch set with cart, gages and tanks	Unk - photo 1111	1111	462.	5 \$463	New \$125 - Val 50% (tanks at \$200 EA)
8	1	Portable Generator - 5000 watt	Generac C 5000	1100	157	5 \$1,575	New comp price \$2100 - 25% deduct on used
9	1	Arc Welder	Airco Easy Arc AC/DC 250 amp	1101 - 1102	300	0 \$300	Used pricing - general market
10	1	Milling Machine	Universal Kempsmith	1112 - 1113	1000	0 \$10,000	50% of cost of each comp associated with a total wheel shop
11	1	Milling / Drilling Machine	MSC	1114	220	0 \$2,200	General used pricing
12	1	Vertical Drill Press	RIDGID	1116 - 1117	750	0 \$750	New \$2650 - Used retail \$750
13	1	Dual wheel table grinder	Jet	1118	109	•	New - \$218 - 50% deduct on used
14	1	Dual wheel table grinder	Unknown	1119	87.	•	Older model - 60% discount from above
15	1	18" lathe	LeBlond	1120 - 1121	670		With tooling - average pricing \$6700 used
16	1	38" lathe	Niles	1122-1123-1124	1000		50% of cost of each comp associated with a total wheel shop
17	1	Gantry Crane	unk	1125	1099.		New \$2199 - 50% deduct on used
18	2	Chop saws	DeWalt	1136	100	-	New \$200 - 50% used
19	2	Cordless Drills	DeWalt	1137	3!		New price \$78EA 50% deduct for used
20	1	large impact drill	Matco	1138	150		Local used pricing
21	1	small impact drill	Chicago Pneumatic	4420	120	-	Local used pricing
22	1	Jack Hammer	Bosch with cart and tools	1139	\$ 1,020		\$2040 new - Val 50%
23	1	Set of (2) Locomotive Jacks - Air	Duff - Norton Model 228	1127	119		May not be in working condition / Has core clue priced at 50% used refurbished
24	1	Set 25 ton hydraulic jacks	unk	1132	130		set for \$1300 used pricing
25	1	Set 30 ton hydraulic jacks	unk	1132	130		set for \$1300 used pricing
26	Misc	Chains, slings and straps	various	1133-1134-1135	1500		\$1500 - engineers estimate
27	1	Air Shop Air Compressor	10 HP Kobalt 20 drawer / various tools	1140 - 1141	\$2,500		Appraised from recent compressor donation to Adirondack Scenic Railroad
28 29	1 1	Tool box with miscellaneous tools 4 drawer Tool Box with tools	Craftsman box - various tools	1131 1131	\$ 2,450 \$ 187		Tool box alone new about \$900 (50% - tooling \$100 / drawer Box alone new \$150 263 piece tool set new: \$223 Val = 50%
30	Misc	Assorted sockets and Wrenches	Various	1131	3 167 150	-	Various individual and miscellaneous tooling in shop
31	misc	Assorted pipe fittings / nuts / bolts	Various	1128 - 1129	100		Uninventoried / Assorted
32	1	Light Duty Utility Trailer	2 wheel ball hitch	1144 - 1145	550		\$550 - general used pricing
33	1	Jackson portable tamper gas powered	Jackson / Tecumseh	1146 - 1147 - 1148	150		Core / Scrap Value (Engineers opinion) No comps found - Obsolete equipment
34	1	Heavy Duty Trailer	2 wheel for tamper	1148	850		\$850 - general used pricing
35	1	Riding Lawn mower	Husqvarna Model YTH 1542XP	1149 - 1150	100		Used Retail \$750 - \$1095 without catcher attachment
36	1	2,000 gallon catchment tank for oily water	Unk	1151 - 1152	650		\$1300 new pricing - 50% deduct
37	1	Small cemet mixer	Unk - 4 bag capy	1154	200		Used local pricing
38	1	Radial Arm Saw	RIGID ?	1155	60		Local used pricing
39	1	Table Saw	ACE	1156	400		Local used pricing
40	1	6" Jointer	Delta	1157	600		Local used pricing
41	1	Chop saw	Bosch	1160	57.		\$1150 new - 50% deduct on used
42	1	10" Table saw	Delta	1158	30	0 \$300	Local used pricing
43	1	Miter Saw	Delta	1161	50	0 \$50	New price- \$100 50% deduct on used
44	1	12" Planer	Delta	1162	17	5 \$175	\$350 new - 50% deduct on used
45	1	Electric Air Compressor	Coleman 27gal. / 5 HP	1163	7.	5 \$75	Local used pricing
46	1	16-1/2" Drill Press	Delta	1165 - 1166	32	5 \$325	\$650 new price - 50% deduct
47	1	Gas powered Air Compressor	RIGID 9 gallon - 135 psi	1167 - 1168	7.	5 \$75	Local used pricing
48	1	Amplifier / Mixer	Sampson Model 883	1169	60	0 \$60	Based on used retail
49	1	Hi-Rail Golf Cart Inspection Vehicle	Cushman model 80 EZ GO with Hi-Rail Wheels	1176 - 1179	100	0 \$1,000	Valued as a track inspection vehicle rather than a golf cart
50	1	Chain saw	Stihl D25	1180	150	0 \$150	Used pricing = \$150
51	1	Chain saw	Stihl 021 16"	1180	250	0 \$250	Used pricing = \$250
52	1	Leaf Blower - gas	Stihl	1180	140	0 \$140	Local used pricing
53	3	Stihl Gas Powered Trimmers	Stihl	1181	120	0 \$360	Local used pricing
54	1	10,000 gal oil tank	Diesel Fuel Storage	1183	675	0 \$6,750	Refurbised used tank cost +/- \$13500 EA - 50% deduct for used
55	1	10,000 gal diesel tank	Waste oil storage	1183 & 1185	675	0 \$6,750	Refurbised used tank cost +/- \$13500 EA - 50% deduct for used
56	1	3100 gallon reserve fuel tank - oil	Old Tank Car - No trucks	1184	140		Used 3500 - 60% deduct as old tank car
57	1	Welder / Generator on flat bed truck	Lincoln Ranger 8	1076	90		Based on local used market
	2	Tool boxes on Ford F-350 flat bed	Galvanized		27		Used Local pricing
	TOTA	<u>L</u>				\$ 77,937	

A comp sale was found for a complete wheelshop of heavy machine equipment for \$80,000 This included a boring mill, wheel lathe, axle lathe and bearing press

Each individual component may be valued at 50% less than the average per piece as individual units

This would account for the 38" wheel lathe and the Universal milling machine