APPENDIX B

Highway Construction Administration Forms

The latest versions of these forms can be found on Alberta Transportation's website: https://www.transportation.alberta.ca/919.htm

SUMMARY TABLE - APPENDIX B HIGHWAY CONSTRUCTION ADMINISTRATION FORMS (TESTING REQUIREMENTS AND REPORTING FORMS)

Form No.	Form Name	Designation		
B.01	Minimum QA Testing Requirements - ACP - Managed QA	MQA/12 (2 Pages)		
B.01a	Minimum QA Testing Requirements - ACP - Managed QA (Projects with QA Testing for Maximum Specific Gravity)	MQAa/19 (2 Pages)		
B.02	Minimum QA Testing Requirements - ACP - Superpave	SMQA/12 (2 Pages)		
B.03	Minimum QA Testing Requirements - ACP – Hot In-Place Recycle	HIRQA/12 (2 Pages)		
B.04	Minimum QA Testing Requirements – Cold In- Place Recycling	1 CIRQA/12		
B.05	Minimum QA Testing - Subgrade Prep & Grading	SUBGQA/12		
B.06	Minimum QA Testing Requirements – Granular Base Course and Full Depth Reclamation	GBCQA/12		
B.07	Asphalt Mix Design and Job Mix Formula Summary Sheet	ACPJMF/12		
B.08	Superpave Mix Design and Job Mix Formula Summary Sheet	SUPJMF/12		
B.09	Lot Paving Report	MAT 6-78/12		
B.09a	Lot Paving Report (Projects with QA Testing for Maximum Specific Gravity)	MATa 6-78/19		
B.10	Superpave Lot Paving Report	MAT 6-78S/12		
B.11	Hot In-Place Lot Paving Report	MAT 6-78H/12		
B.12	Daily Compaction Report - Grading and Subgrade Projects	MAT 6-1/12		
B.13	Daily Report - Granular Base Course (Used also for FDR Compaction)	MAT 6-60/12		
B.14	Daily Compaction Report - Cold In-Place Recycling	CIR1/12		
B.15	Appeal Initialization Form	MAT 6-92A/11		
B.16	Appeal Testing	MAT 6-92/11		
B.17	Segregation Worksheet	MAT 6 – 95/12		
B.18	Segregation Summary Report	MAT 6 – 95s/12		
B.19	Profilograph Index Report	MAT 6-73/12		
B.20	Ride Quality Summary and Areas of Localized Roughness Summary	Excel Format		
OA Testing and Reporting Requirements for Cutback Asphalt Mixes Emulsified				

QA Testing and Reporting Requirements for Cutback Asphalt Mixes, Emulsified Asphalt Mixes and Cement Stabilized Base Course are inactive and not included here. If needed, contact Technical Standards Branch.

MINIMUM QUALITY ASSURANCE TESTING REQUIREMENTS ASPHALT CONCRETE PAVEMENT - EPS SPEC 3.50, MANAGED QA

MQA	TEST /12	STANDARD	MINIMUM FREQUENCY	ATT- DATA SHEETS
CAMI	PLING			
1.	Mix	ATT-37	¹ Five per each Lot (full Production)	
2.	Cores (Obtained by Contractor) Stratified Random Test Sites for ACP Projects	ATT-56	Each Lot	MAT 6-82
	Coring (Monitor Contractor's Coring)	ATT-5	One per Segment	
3.	Aggregate	ATT-38	As required for Correction Factor	
1.	TESTING Asphalt Content	ATT-12 Part II or ATT-74	² One per Segment for each QA Acceptance Lot	MAT 6-79 MAT 6- 98 MAT 6- 99 MAT 6- 100
2.	Correction Factor, Extracted Asphalt Content	ATT-12 Part III	As specified in ATT-12 Part III	MAT 6-101 MAT 6-75
3.	Correction Factor, Ignition Asphalt Content	ATT-74	As specified in ATT-74 Part II	MAT 6-99
4.	Mix Moisture Content	ATT-15	¹ Five tests per Lot (Full Production)	MAT 6-80
5.	Field Formed Marshall Briquettes	ATT-13	¹ Five tests per Lot (Full Production)	MAT 6-80
AGGI	REGATE TESTING Extraction or Ignition Sieve Analysis	ATT-26	Each sample, QA Acceptance Lot As required	MAT 6-80
2.	Correction Factor Aggregate Sieve Analysis	ATT-26	As required	MAT 6-75 MAT 6-25
OTHI 1.	ER RELATED TESTING Density Immersion Method, Saturated Surface Dry	ATT-7	Each core or formed specimen	MAT 6-80
2.	Voids Calculations, Cores or Formed Specimens	ATT-36	Each core or formed specimen	MAT 6-80 MAT 6-79
3.	Percent Compaction, Asphalt Concrete Pavement	ATT-67	One per Segment	<u>MAT 6-79</u>
PAVE 1.	MENT SURFACE Smoothness ³	ATT-59	Each Sublot	MAT 6-73
2.	Segregation	Paving Guidelines & Segregation Rating Manual	Each Lane.Km	<u>MAT 6-95</u>

REPORTING 1. All Approved Asphalt Mix Designs and Changes in Job Mix Formula		Email completed Asphalt Mix Design & JMF Summary Sheet to Project Sponsor and Surface Engineering & Aggregates Section at trans.constructqa@gov.ab.ca. Provide written documentation to Contractor for approved designs and JMF changes. Included copies of all mix designs and JMF approvals in Final Details.			
2.	Lot Paving Report	Complete MAT 6-78 Lot Paving Report. Submit on a weekly basis to Project Sponsor and to trans.constructqa@gov.ab.ca			
3.	Profilograph & Segregation	Include MAT 6-73 and MAT 6-95s in Final Details as outlined in Engineering Consultant Guidelines for Highway and Bridge Projects - Volume 2, Construction Contract Administration. Email early submission copy of Final Details ACP EPS or Final Details IRI ACP – EPS form to trans.constructqa@gov.ab.ca within one month of paving completion.			
	 Note: One sample for the first two hours of production; one immediately after, remaining samples at random over the rest of the day. Full production is considered when a Lot has more than eight hours of plant production. Note: On QC Acceptance Lots a minimum of one asphalt content on loose mix using test procedures specified in Table 3.50.4. TEST 				
³ Note:	METHODS ON MANAGED QA PROJECTS 3Note: California Profilograph method or International Roughness Index method using inertial profilers (testing provided by the Contractor) as outlined in contract.				

Testing requirements as per MQA specifications are briefly summarized as follows:

- Consultant to sample loose mix from behind the paver and form Marshall briquettes.
- Contractor to obtain all core samples at site locations determined by the Consultant.
- Materials processing and QA testing is to done in a laboratory facility (mobile or stationary) that is no further than one hour from the project.
- Contractor quality control test results for asphalt content and gradation will be used for
 conditional acceptance of most Lots. For these QC Acceptance Lots the Consultant is do a
 minimum of one asphalt content test per Lot on loose mix using the specified test procedures.
 For QA Acceptance Lots report only the QA test results on the Lot Paving Report. For QC
 Acceptance Lots report all available QA results and the QC test results for asphalt content and
 gradation. Indicate on the Lot Paving Report which are QC and which are QA.
- On QC Acceptance Lots the Target Asphalt Content is to be used to determine air voids.
- The minimum number of QA Lots in which full QA testing is completed is outlined in section 3.50.1.2 Definitions of Specification 3.50 ACP-EPS.
- At time of publication the Department is transitioning to the use of inertial profilers and International Roughness Index (IRI) criteria for pavement smoothness. Reporting requirements are still to be finalized and will be released in the form of a Construction Bulletin or other means.

MINIMUM QUALITY ASSURANCE TESTING REQUIREMENTS ASPHALT CONCRETE PAVEMENT - EPS SPEC 3.50, MANAGED QA (Projects with Maximum Specific Gravity Testing)

		-		
MQA/17	TEST	STANDARD	MINIMUM FREQUENCY	ATT- DATA SHEETS
SAMPL:	ING Mix	ATT-37	¹ Five per each Lot (full Production)	
2.	Cores (Obtained by Contractor) Stratified Random Test Sites for ACP Projects	ATT-56	Each Lot	MAT 6-82
	Coring (Monitor Contractor's Coring)	ATT-5	One per Segment As required for	
3.	Aggregate	ATT-38	Correction Factor	
			² One per Segment for	MAT (70
MIX TE	Asphalt Content	ATT-12 Part II or ATT-74	each QA Acceptance Lot	MAT 6-79 MAT 6-98 MAT 6-99 MAT 6-100
2.	Correction Factor, Extracted Asphalt Content	ATT-12 Part III	As specified in ATT-12 Part III	MAT 6-100 MAT 6-101 MAT 6-75
3.	Correction Factor, Ignition Asphalt Content	ATT-74	As specified in ATT-74 Part II	MAT 6-99
4.	Mix Moisture Content	ATT-15	¹ Five tests per Lot (Full Production)	MAT 6-80
5.	Field Formed Marshall Briquettes	ATT-13	¹ Five tests per Lot (Full Production)	MAT 6-80
6.	$\label{eq:maximum specific Gravity of Bituminous Mixes} Maximum Specific Gravity of Bituminous Mixes (G_{mm})$	ASTM D2041	¹ Five tests per Lot (Full Production)	
	GATE TESTING	ATT-26	Each sample, QA	MAT 6-80
1.	Extraction or Ignition Sieve Analysis		Acceptance Lot	
2.	Correction Factor Aggregate Sieve Analysis	ATT-26	As required	MAT 6-75 MAT 6-25
OTHER	RELATED TESTING			
1.	Density Immersion Method, Saturated Surface Dry	ATT-7	Each core or formed specimen	MAT 6-80
2.	Voids Calculations, Cores or Formed Specimens	ATT-36 and	Each core or formed specimen	MAT 6-80 MAT 6-79
		% by G _{mm}		(See Note 3)
3.	Percent Compaction, Asphalt Concrete Pavement	ATT-67	One per Segment	MAT 6-79
PAVEM	ENT SURFACE	See Contract	Each Sublot	Contractor to test and
1.	Smoothness Testing using IRI Criteria	Documents		report
2.	Segregation	Paving Guidelines & Segregation Rating Manual	Each Lane·Km	MAT 6-95

REPO	RTING	Email completed Asphalt Mix Design & JMF Summary Sheet to
		Project Sponsor and Surface Engineering section at
		trans.constructqa@gov.ab.ca. Provide written documentation to
	All Approved Asphalt Mix Designs and Changes in Job	Contractor for approved designs and JMF changes. Included copies of all
	Mix Formula	mix designs and JMF approvals in Final Details.
2.	Lot Paving Report	Complete MAT 6-78 Lot Paving Report. Submit on a weekly basis to
1	5 · r	Project Sponsor and to trans.constructqa@gov.ab.ca. Use appropriate Lot
		Paving Report form complete with G _{mm} Air Voids.
3.	Pavement Smoothness & Segregation	IRI reports to be submitted to trans.constructga@gov.ab.ca include .ppf
J.	i avenient smoothness & segregation	data files, ProVAL reports (.pdf) and payment assessment spreadsheets
		(.xls) as outlined in CB #25 Pavement Smoothness Testing Using IRI
		Criteria.
İ		Include MAT 6-95s in Final Details as outlined in Engineering
İ		Consultant Guidelines for Highway and Bridge Projects - Volume 2,
		Construction Contract Administration. Email early submission copy of
		Final Details ACP EPS to trans.constructqa@gov.ab.ca within one
İ		month of paving completion.
1 Mate.	One completes the first two bears of another tions are in	
¹ Note:	production is considered when a Lot has more than eigh	nmediately after, remaining samples at random over the rest of the day. Full it hours of plant production.
² Note:	On OC Acceptance Lots a minimum of 1 asphalt conter	nt test on loose mix using test procedures specified in Table 3.50.4. TEST
11000	METHODS ON MANAGED QA PROJECTS	are the control of th
³ Note:		c Gravity (G_{mm}) are to be reported for information only and not to be
1	used for specification compliance.	
	Air Voids (%) = $\left(\frac{G_{mm} - (G_{mb})}{G_{mm}}\right)$	×100
	Where: $G_{mm} = Maximum$ specific gravity, an	nd .
	$G_{mb} = Bulk \ Specific \ Gravity \ of \ Mar$	
	Note: Density is a synonymous term	often used within industry in place of Specific Gravity.

Testing requirements as per MQA specifications are briefly summarized as follows:

- On all Lots (QA Acceptance or QC Acceptance) the Consultant is to sample loose mix from behind the paver to form Marshall briquettes and determine Maximum Specific Gravity (G_{mm}).
- For each sampling instance, the Consultant shall split and retain a minimum 5000 g sample for the Contractor for determination of Maximum Specific Gravity.
- Marshall air voids determined by Maximum Specific Gravity (G_{mm}) are to be reported for information only and not to be used for specification compliance.
- Contractor to obtain all core samples at site locations determined by the Consultant.
- Materials processing and QA testing is to be done in a laboratory facility (mobile or stationary) that is no further than one hour from the project.
- Contractor quality control test results for asphalt content and gradation will be used for conditional acceptance of most Lots. For these QC Acceptance Lots the Consultant is to do a minimum of one asphalt content test per Lot on loose mix using the specified test procedures. For QA Acceptance Lots, report only the QA test results on the Lot Paving Report. For QC Acceptance Lots, report all available QA results and the QC test results for asphalt content and gradation. Indicate on the Lot Paving Report which are QC and which are QA.
- On QC Acceptance Lots the Target Asphalt Content is to be used to determine air voids.
- The minimum number of QA Lots in which full QA testing is completed is outlined in section 3.50.1.2 Definitions of Specification 3.50 ACP-EPS.

MINIMUM QUALITY ASSURANCE TESTING REQUIREMENTS ASPHALT CONCRETE PAVEMENT - SUPERPAVE SPEC 3.53, MANAGED QA

SMO	TEST QA/12	STANDARD	MINIMUM FREQUENCY	ATT- DATA SHEETS
SAN	MPLING			
1.	Mix	ATT-37	¹ Five per each Lot (full Production)	
2.	Cores (Obtained by Contractor) Stratified Random Test Sites for ACP Projects	ATT-56	Each Lot	MAT 6-82
3.	Coring (Monitor Contractor's Coring)	ATT-5	One per Segment	
4.	Aggregate	ATT-38	As required for Correction Factor	
MIX 1.	TESTING Asphalt Content	ATT-12 Part II or	² One per Segment for each QA Acceptance	MAT 6-79 MAT 6- 98
2.	Correction Factor, Extracted Asphalt Content	ATT-74 ATT-12 Part III	Lot As specified in ATT-12 Part III	MAT 6- 99 MAT 6- 100 MAT 6-101 MAT 6-75
3.	Correction Factor, Ignition Asphalt Content	ATT-74	As specified in ATT-74 Part II	MAT 6-99
4.	Mix Moisture Content	ATT-15	¹ Five tests per Lot (Full Production)	MAT 6-80s
5.	Field Formed Gyratory Specimens(N design)	AASHTO T 312	¹ Five tests per Lot (Full Production)	MAT 6-80s
AGO	GREGATE TESTING			
1.	Extraction or Ignition Sieve Analysis	ATT-26	Each sample, QA Acceptance Lot	MAT 6-75
2.	Correction Factor Aggregate Sieve Analysis	ATT-26	As required	MAT 6-25
ОТІ	IED DEL AGED GESTENIC			
1.	HER RELATED TESTING Density Immersion Method, Saturated Surface Dry	ATT-7	Each core or formed specimen	MAT 6-80
2.	Voids Calculations, Cores or Formed Specimens using Maximum Specific Gravity(Gmm)	TLT-309	Each core or formed specimen	MAT 6-80s MAT 6-79
3.	Percent Compaction, Asphalt Concrete Pavement (% of Gmm)	TLT-309	One per Segment	<u>MAT 6-79</u>
4.	Maximum Specific Gravity of Bituminous Mixes (Gmm)	ASTM D2041	¹ Five tests per Lot (Full Production)	
PAV 1.	VEMENT SURFACE Smoothness ³	ATT-59	Each Sublot	MAT 6-73
2.	Segregation	Paving Guidelines & Segregation Rating Manual	Each Lane.Km	MAT 6-95

REPORTING 1. All Approved Asphalt Mix Designs and Changes in Job Mix Formula		Email completed <u>Superpave Mix Design & JMF Summary Sheet</u> to Project Sponsor and Surface Engineering & Aggregates Section at trans.constructqa@gov.ab.ca. Provide written documentation to Contractor for approved designs and JMF changes. Included copies of a mix designs and JMF approvals in Final Details.				
2.	Superpave Lot Paving Report	Complete MAT 6-78s Superpave Lot Paving Report. Submit on a weekly basis to the Project Sponsor and email to trans.constructqa@gov.ab.ca.				
3.	Profilograph & Segregation	MAT 6-73 and MAT 6-95s to be included in Final Details as outlined in Engineering Consultant Guidelines for Highway and Bridge Projects - Volume 2, Construction Contract Administration. Fax early submission copy of Final Details ACP EPS or Final Details IRI ACP – EPS form to 422-2846 or email to trans.constructqa@gov.ab.ca within one month of paving completion.				
	production is considered when a Lot has more than eight	• •				
² Note:	Note: On QC Acceptance Lots a minimum of one asphalt content on loose mix using test procedures specified in Table 3.53.4. Test Methods on Superpave Managed QA Projects.					
³ Note:						

Testing requirements as per MQA specifications for Superpave are briefly summarized as follows:

- Consultant to sample loose mix from behind the paver for the formation of Gyratory specimen (to Ndesign) and determination of Maximum Specific Gravity (Gmm).
- Contractor to obtain all core samples at site locations determined by the Consultant.
- Materials processing and QA testing is to done in a laboratory facility (mobile or stationary) that is no further than one hour from the project.
- Contractor quality control test results for asphalt content and gradation will be used for conditional acceptance of most Lots. For these QC Acceptance Lots the Consultant is do a minimum of one asphalt content test per Lot on loose mix using the specified test procedures.
- For QA Acceptance Lots report only the QA test results on the Lot Paving Report. For QC Acceptance Lots report all available QA results and the QC test results for asphalt content and gradation. Indicate on the Lot Paving Report which are QC and which are QA.
- On QC Acceptance Lots the Target Asphalt Content is to be used to determine air voids.
- The minimum number of QA Lots in which full QA testing is completed is outlined in section 3.53.1.2 Definitions of Specification 3.53 Superpave-EPS.
- At time of publication the Department is transitioning to the use of inertial profilers and International Roughness Index (IRI) criteria for pavement smoothness. Reporting requirements are still to be finalized and will be released in the form of a Construction Bulletin or other means.

MINIMUM QUALITY ASSURANCE TESTING REQUIREMENTS HOT IN-PLACE RECYCLED ASPHALT CONCRETE PAVEMENT (HIR)

	HOI IN-PLACE RECYCLED ASPHALI CONCRETE PAVEMENT (HIR)					
HIRO	TEST QA/12	STANDARD	MINIMUM FREQUENCY	ATT- DATA SHEETS		
CAM	PLING					
1.	Mix	ATT-37	¹ Five per Lot (full Production)			
2.	Cores (Obtained by Contractor)	ATT-56	Each Lot	MAT 6-82		
	Stratified Random Test Sites for ACP Projects provided by Consultant Consultant Monitors Contractor's Coring	ATT-5	One per Segment			
MIV	TESTING		One 5 000 g sample per			
1.	Asphalt Recovery by Abson or Evaporator	ASTM D1856 or ASTM 5404	typical Lot ²			
2.	Standard Penetration of Recovered Asphalt	ASTM D5	One per Asphalt Recovery ²			
3.	Asphalt Content	ATT-12 Part II	One per Asphalt	MAT 6-79		
4.	Mix Moisture Content	ATT-15	Recovery. Each Mix Sample	MAT 6-80		
5.	Field Formed Marshall Briquettes	ATT-13	Each Mix Sample	MAT 6-80		
AGG	REGATE TESTING Extraction Sieve Analysis	ATT-26	One per Asphalt Recovery	MAT 6-80		
ОТН 1.	ER RELATED TESTING Density Immersion Method, Saturated Surface Dry	ATT-7	Each core or formed specimen	MAT 6-80		
2.	Voids Calculations, Cores or Formed Specimens	ASTM D3203	⁴ Each core or formed specimen	MAT 6-80 MAT 6-79		
3.	Maximum Specific Gravity of Bituminous mix(Gmm)	ASTM D2041	Each mix sample			
4.	Percent Compaction, ACP (% of Gmm)		³ One per Segment	MAT 6-79		
PAV 1.	EMENT SURFACE Smoothness ⁵	ATT-59	Top Lift	<u>MAT 6-73</u>		
2.	Segregation	Paving Guidelines & Segregation Rating Manual	Top Lift	<u>MAT 6-95</u>		
REPORTING 1. HIR Lot Paving Report			HIR Lot Paving Report. Suasis and email to trans.constr			
2.	Profilograph & Segregation	Include MAT 6-73 and MAT 6-95s in Final Details as outlined in Engineering Consultant Guidelines for Highway and Bridge Projects - Volume 2, Construction Contract Administration. Sent early submission copy to Surface Engineering & Aggregates Section by email to trans.constructqa@gov.ab.ca within one month of paving completion.				

¹ Note: One sample for the first 0.5 lane kilometres of equipment operation; the second sample shortly thereafter; remaining samples at random over the remainder of the day(s). Full production is considered when a Lot is approximately 3 lane kilometres of equipment operation. For each sampling instance two duplicate 5000 gram samples shall be bagged, identified and stored. One of the duplicate samples will be used for possible penetration testing of the recovered asphalt. The second duplicate sample is to be available for possible appeal testing for Marshall air voids.

OA testing requirements as per HIR specifications are briefly summarized as follows:

- Contractor to obtain all core samples at site locations determined by the Consultant.
- Core densities for all Lots are to be determined by the Consultant.
- Consultant to sample loose mix from behind the paver to form Marshall briquettes and determine Maximum Specific Gravities (Five each per Lot under full production). All of these tests are to be done in an on-site lab (i.e. located within one hour of the project). For each sampling of loose mix the consultant is to bag, identify and store two 5,000 grams.
- Asphalt recovery and penetration testing of the recovered asphalt shall be completed for each Lot on one of the duplicate loose mix samples collected. No further asphalt testing is required for that Lot if the first test result does not fall within a penalty or reject assessment. If the first test result does fall within the range of penalty or reject then the remaining split samples for that Lot shall be tested for assessment purposes. If the test results for asphalt penetration are within the limits of Figure 1 of the HIR specification amendment for three consecutive Lots, the testing frequency may be reduced to one per five Lots of HIR production.
- Contractor quality control test results for asphalt content and gradation are to be reported on the HIR Lot Paving Report for all Lots.
- Actual testing requirements may be modified by contract special provisions.
- At time of publication the Department is transitioning to the use of inertial profilers and International Roughness Index (IRI) criteria for pavement smoothness. Reporting requirements are still to be finalized and will be released in the form of a Construction Bulletin or other means.

² Note: Up to five per Lot if penetration results of the first sample is in price reduction/rejection range.

³ Note: Frequency refers to Stratified Random Testing. Non-Random test frequency shall be 5 tests per Lot. (See Specification 3.50.4.4.2.4, Exclusions to Random Sampling)

⁴Note: Requires the determination of the mixture's Theoretical Maximum Specific Gravity for each mix sample.

⁵Note: California Profilograph method or International Roughness Index method using inertial profilers (testing provided by the Contractor) as outlined in contract.

MINIMUM QUALITY ASSURANCE TESTING REQUIREMENTS COLD IN-PLACE RECYCLED (CIR)

CIRQA/	TEST	STANDARD	MINIMUM FREQUENCY	
SAMPL1	ING & FORMING MARSHALL BRIQUETTES Loose CIR Mix (Sampled by the Contractor)	ATT-37	Three per Lot	
2.	150 mm by 150 mm Slabs or 150 mm diameter cores (Obtained by Contractor) Stratified random locations provided by the Consultant.	ATT-56 ATT-5	Each Lot One per Segment	Daily Compaction Report - CIR
MATER 1. 2. 3. 4. 5. 6.	Field formed Marshall briquettes (Performed by the Contractor) CIR Mix Moisture Content (Determined by the Contractor) Slab/Core Moisture Content (by Consultant) Bulk Density of Marshall briquettes (Determined by the Contractor) Bulk Density of Slab/Core Samples (by Consultant) Percent Compaction of CIR Mat (Determined by the Consultant)	ATT-13 75 blows at room temperature ATT-15, Part II ATT-15, Part II ASTM D1188 ASTM D6752 ATT-67	Each CIR Mix Sample Each CIR mix sample Each Core/Slab sample Each formed specimen Each slab or core specimen One per Segment	QC Marshall densities and CIR mix moisture results are to be provided to the Consultant. All QC and QA results to be reported on the Daily Compaction Report - CIR
CIR SUI	RFACE Smoothness (Three metre straightedge to be provided by the Contractor)		Check for surface deviations in excess of specification limits.	
REPORTING 1. CIR Mix Designs		Submit verified CIR mix designs to Project Sponsor and email to trans.constructqa@gov.ab.ca		and email to
2.	Daily Inspection Report	Completed by the Contractor as per section 3.56.6 Quality Control of Specification 3.56 Cold In-Place Recycling. Include as part of the Final Details submission.		
Densities, Percent Compaction and Moisture Contents.		Complete Daily Compaction Report - CIR. Submit to Project Sponsor along with other construction weeklies. Email to Surface Engineering & Aggregates section at trans.constructqa@gov.ab.ca.		

MINIMUM QUALITY ASSURANCE TESTING REQUIREMENTS FOR SUBGRADE PREPARATION AND GRADING PROJECTS

TOR SEDGRADE I			
TEST	STANDARD	FREQUENCY	ATT DATA
SUBGQA/12		(Minimum)	SHEET(S)
MOISTURE DENSITY TESTS			
 Standard Compaction, -5000 um Standard Compaction, +5000 um Standard Compaction, One Point 	ATT-23 ATT-19 ATT-20	One for each representative soil type tested for in-place density.	MAT 6 - 22
DENSITY OF SOIL (In-Place)			
 Sand Cone Method, or Rubber Balloon Method, or Nuclear Density Gauge Method. Correction Factor 	ATT-9 ATT-8 ATT-11 ATT-48	Top 0.3 m, one test per 300 m. Below the top 0.3 m, 3 tests per metre of fill per 1000 m.	MAT 6 - 23 MAT 6 - 34 MAT 6 - 54
Note: The nuclear method may only be used under the following conditions: (a) The gauge calibration is checked			
yearly and a log book of standard counts is maintained as outlined in ATT-11, Section 3.7. (b) Percent compaction and a rock correction are determined as outlined in ATT-11, Section 3.9.1. Correction factors		Each density test corrected.	
done as outlined in ATT-48 SOILS IDENTIFICATION, HAND METHOD	ATT-29		N/A
MOISTURE CONTENT			
Laboratory determination of moisture content of soils.	ATT-15	Each significant soil type as required for moisture control.	MAT 6 - 24 MAT 6 - 34
- Soil and Gravel - Microwave Method	ATT-11		MAKE U - UT
2. Nuclear Moisture Content.			
REPORTING 1. Compaction	Complete MAT (a weekly basis.	5-1 Daily Compaction Report. Sub	mit to Project Sponsor on

The listed standard test methods and frequencies are to serve as a guideline for Consultants to use on "typical" or "average" projects, around which project specific testing programs may be developed. The listed test methods and frequencies are however to be followed in situations of dispute with the contractor, as per contract requirements.

MINIMUM QUALITY ASSURANCE TESTING REQUIREMENTS FOR GRANULAR BASE COURSE AND FULL DEPTH RECLAMATION (COMPACTION ONLY)

TEST GBCQA/12	STANDARD	FREQUENCY (Minimum)	ATT DATA SHEET(S)	
SAMPLING, Gravel and Sand	ATT-38	As required in ATT-38 (3 to 5 per Lot)		
SIEVE ANALYSIS	ATT 25 or 26	As required in ATT-38 (1 to 5 per Lot)	MAT 6-25 or MAT 6-27	
PERCENT FRACTURE	ATT-50	400 m Density Test Sections	MAT 6-26 or MAT 6-28	
DENSITY, Control Strip Method ¹	ATT 58	established every 1000 m.	MAT 6-45 MAT 6-46 & MAT 6- 47	
RANDOM TEST SITE LOCATIONS	ATT-56			
MOISTURE CONTENT, Oven Method, Soil and Gravel	ATT-15		MAT 6-24	
REPORTING	Submit to the Project Sponsor on a weekly basis.			
1. Gradation and Fractures	Complete MAT 6 - 60 Daily Report - Granular Base Course			
2. Density	Complete MAT 6 - 60 Daily Report - Granular Base Course			

NOTES

For Full Depth Reclamation (FDR) projects, compaction testing is to follow the Control Strip Method with modifications as listed in Specification 3.4 Full Depth Reclamation. Compaction results to be reported on the DAILY REPORT – GRANULAR BASE COURSE form.

Alberta Transportation ASPHALT MIX DESIGN AND JOB MIX FORMULA SUMMARY SHEET

		SECTION SECTIO			
Contract No.:		Highway:		Region:	Contractor:
			XX:xx		
Project From:		Project To:		Mix Design Consultant:	QA Review Consultant:
Pit Name and Location:			Blend Sand Pit Name an	d Location:	
Marshall Design No.:	Specified Mix Type:	Date Submitted:	(dd-mmm-year)	RAP Source and Locat	ion:
		SECTION	ON B		
		Mix Design F	Properties		
Combi	ned Aggregate Prop	perties	Des	sign Recommendat	ions
Bulk Speci	fic Gravity		Virgin Asphal	t Content (%)	
% Asphalt	Absorption		Total Asphal	t Content (%)	
% Manufactured Fine	es (in -5000 Portion)		Marshall De	nsity (kg/m³)	
% Two Fac	e Fractures		Air Voi	ids (%)	
% One Fac	e Fractures		V.M.	A (%)	
% Detrimental	Matter Content		V.F.A	A. (%)	
Plasticit	y Index		Theoretical Fi	Im Thickness	
Fine Aggrega	ite Angularity		Stabil	ity (N)	
Asphalt Properties			Flow	(mm)	
Asphalt Grade			Tensile Strength F	Ratio (no anti-strip)	
Supplier			T.S.R. (with anti-strip) (if applicable)		
Specific	Gravity		Liquid Anti-Strip Additive (%)		
use drop-de	own bar here to sele	SECT ect either 1. Job M	ION C lix Formula or 2	. Change in Job M	ix Formula
Agg. Gradation	% Passing		Aggregate Pr	oportions (%)	
25 000		Coarse (16.0mm)		Natural Fines	
20 000		Coarse (12.5mm)		Additive	
16 000		Manufactured Fines		Chips	
12 500		Blend Sand		RAP	
10 000		New Target A.C.		New Film Thick.*	
5 000		* Value calculated base	d upon new JMF aggreg	ate gradation and targe	t asphalt content
2 500 (Film Thick.)		with other information in	ncluded in the original m	ix design (<i>must meet d</i>	lesign criteria)
1 250		Reviewed by :		First Lot No. For Cl	nange:
630					
315		Signature:		Date: (dd-mmm-year	^)
160					
80					
Remarks:		•		•	
A1. /	Opposite to the first	a famous de de la colonia de	-11		
Note:	•	m for mix design subn			
		F, comment on what on the product name for a		alt or anti atrin additio	100
Email completed o		onsor and to the Tecl			
Email completed t	opy to the ritigeof op	onsor and to the 1601	iiiiodi Otaridalus Dia	non ac tians.constit	orda e gov.ab.oa
					ΔCP IMF/12

Alberta Transportation ASPHALT MIX DESIGN AND JOB MIX FORMULA SUMMARY SHEET

		SECTION SECTIO			
Contract No.:		Highway:		Region:	Contractor:
Project From:	XXX	Project To:	KX:xx	Mix Design Consultant:	QA Review Consultant:
		. 10,001 10.		linix 2 doi.gir doi.iodi.aii.ii	C. C. C. C. C. C. C. C. C. C. C. C. C. C
Pit Name and Location:		1	Blend Sand Pit Name an	d Location:	
Marshall Design No.:	Specified Mix Type: M1	Date Submitted:	(dd-mmm-year)	RAP Source and Locat	ion:
		SECTION	AN B		
		Mix Design F			
Combi	ned Aggregate Prop	perties	Des	sign Recommendat	ions
Bulk Speci	fic Gravity	2.603	Virgin Asphal	t Content (%)	4.8%
% Asphalt /	•	0.97	Total Asphal	t Content (%)	5.2%
% Manufactured Fine	es (in -5000 Portion)	50.2	Marshall De	nsity (kg/m³)	2368
% Two Face	e Fractures	79.0	Air Vo	ids (%)	3.6
% One Face	e Fractures		V.M.	A (%)	13.5
% Detrimental I	Matter Content	1.40	V.F.A	A. (%)	73.2
Plasticit	y Index	NP	Theoretical Fi	Im Thickness	6.40
Fine Aggrega	te Angularity	43.1	Stabil	ity (N)	12,800
	Asphalt Properties			(mm)	2.3
Asphalt		PG 52-34	1	Ratio (no anti-strip)	82.4
Supp		Montana	T.S.R. (with anti-s		
Specific	Gravity	0.9620	Liquid Anti-Str	ip Additive (%)	0.4%
		SECT Job Mix F			
Agg. Gradation	% Passing		Aggregate Pr	oportions (%)	
25 000	100	Coarse (16.0mm)	0	Natural Fines	16
20 000	100	Coarse (12.5mm)	37	Additive	
16 000	100	Manufactured Fines	24	Chips	
12 500	99	Blend Sand	13	RAP	10
10 000	87	New Target A.C.		New Film Thick.*	
5 000	60		d upon new JMF aggreg	•	•
2 500 (Film Thick.)	51		ncluded in the original m		
1 250	42	Reviewed by :		First Lot No. For Ch	-
630	34			_	1
315	18	Signature:		Date: (dd-mmm-year)
160	10				
80	7.0			1-Jai	n-2013
Remarks:	Redicote liquid anti- Contractor to use a	strip additive used. plant based foaming	for Warm Mix Aspha	lt	
Note:		m for mix design subr			
		F, comment on what o			
		he product name for	•	•	
Email completed c	opy to the Project Sp	onsor and to the Tecl	hnical Standards Bra	nch at "trans.constru	
					ACPJMF/12

Alberta Transportation SUPERPAVE MIX DESIGN AND JOB MIX FORMULA SUMMARY SHEET

		SECTI Project Identifica			
Contract No.:		Highway:		Region:	Contractor:
Project From:		Project To:		Mix Design Consultant:	QA Review Consultant:
Pit Name and Location:			Blend Sand Pit Name an	d Location:	1
Marshall Design No.:	Specified Mix Type:	Date Submitted:	(dd-mmm-year)	RAP Source and Location	n:
		SECTI Mix Design			
Combir	ned Aggregate Prop	perties	De	sign Recommendat	ions
Bulk Specif	ic Gravity		Total Aspha	It Content (%)	
Clay Con	itent, %		Gyratory Do	ensity (kg/m³)	
Fine Aggregate	Angularity, %		% Asphal	t Absorption	
% Two Face	Fractures		_	mm	
% One Face	Fractures		Cini (%) @Nin		
% Elongated			Cdes (%) @Ndes		
% Detrimental N			Cmax(%) @Nmax		
Plasticity	/ Index			A (%)	
Į.	Asphalt Properties			w (%)	
				sphalt Ratio	
Asphalt				Ratio (no anti-strip) strip) (if applicable)	
Supp			,		
Specific	Gravity		Liquia Anti-Si	rip Additive (%)	
		SECT Job Mix	FION C Formula		
Agg. Gradation	% Passing		Aggregate P	roportions (%)	
25 000		Coarse (16.0mm)		Natural Fines	
20 000		Coarse (12.5mm)		Additive	
16 000		Manufactured Fines		Chips	
12 500		Blend Sand		RAP	
10 000		New Target A.C.		Fines / Asp. Ratio*	
5 000		* Value calculated base	d upon new JMF aggre	gate gradation and target	asphalt content
2 500 (Film Thick.)		with other information i	ncluded in the original m	nix design (<u>must meet d</u>	
1 250 630		Reviewed by :		First Lot No. For Cha	ange:
315		Signature:		Dato: (dd mmm year)	
160		Signature.		Date: (dd-mmm-year)	
80		_			
Remarks:				1	
Note:		m for mix design subn			
	_	F, comment on what of the product name for	_	alt or anti-strip additiv	(AS

Email completed copy to the Project Sponsor and to the Technical Standards Branch at "trans.constructqa@gov.ab.ca" SUPJMF/12

Alberta Transportation SUPERPAVE MIX DESIGN AND JOB MIX FORMULA SUMMARY SHEET

		SECTI Project Identifica			
Contract No.:		Highway:		Region:	Contractor:
123	45	Hwy :	XX:xx	Southern	ABC
roject From:		Project To:		Mix Design Consultant:	QA Review Consultan
Jct. Hv	vy. XX	Jct. Hv	ıy. XXX	XYZ	DBC
t Name and Location:			Blend Sand Pit Name a	nd Location:	
	ky Pit 1 NE-29-025-0	2-05		Rocky Pit 2 SW-04-028-2	
arshall Design No.:	Specified Mix Type:	Date Submitted:	(dd-mmm-year)	RAP Source and Location	
12345-S1	20-F-12.5	29-Se	p-2013	<u> </u>	I/A
		SECTI Mix Design			
Combi	ned Aggregate Pro	perties	D	esign Recommendat	ions
Bulk Speci	fic Gravity	2.384	Total Asph	alt Content (%)	5.3
Clay Cor	•	64.10		Density (kg/m ³)	2383
Fine Aggregate		45.7		alt Absorption	0.75
% Two Face	• •	97.0		Gmm	2.500
% One Face		99.0	Cini (%) @Nii		88.2
		2.40	Cdes (%) @Nde		96.0
% Elongate		1.40	• • •		
% Detrimental I			Cmax(%) @Nma		97.40
Plasticit	y Index	NP		MA (%)	14.0
	Asphalt Properties			ow (%)	71.4
				Asphalt Ratio	1.00
Asphalt		PG 64-34		Ratio (no anti-strip)	60.0
Supp		Husky	,	i-strip) (if applicable)	90.0
Specific	Gravity	1.0240	Liquid Anti-S	Strip Additive (%)	0.4%
		SECT Change in Job	TION C Mix Formula		
Agg. Gradation	% Passing		Aggregate	Proportions (%)	
25 000	100	Coarse (16.0mm)	41	Natural Fines	
20 000	100	Coarse (12.5mm)	45	Additive	
16 000	100	Manufactured Fines		Chips	
12 500	96	Blend Sand	• • •	RAP	
10 000	84	New Target A.C.		Fines / Asp. Ratio*	1.12
5 000	60		d		
2 500 (Film Thick.)	41			egate gradation and targe mix design (<i>must meet d</i>	
			iciuded in the original		
1 250	29	Reviewed by :	act Olanaan	First Lot No. For Ch	ange:
630	22		ect Manager		1
315	13	Signature:		Date: (dd-mmm-year)	
160					
80	5.1			2-Oc	t-2013
Remarks:		or the 80µm sieve incre ti-strip additive used.	ased to 5.1%.		
Noto:	Complete entire fo	ırm for miy design subn	ningiona		

Note: Complete entire form for mix design submissions.

For a change in JMF, comment on what change occurred.

List in the remarks, the product name for any Warm Mix Asphalt or anti-strip additives.

Email completed copy to the Project Sponsor and to the Technical Standards Branch at "trans.constructqa@gov.ab.ca" SUPJMF/12

LOT PAVING REPORT

Albe	nt i	. D	CON	NTRACT	NO.		PROJE	ECT NO.			PROJE	ECT FRO	OM		LO.	T NC	Э.	MST E	ESIGN I	NO.	DE	SIGN NSITY g/m³)		DES AIR VOI		
74 (b 6	100		WE	EK END		CL	NO.	А	CS		PRO	JECT TO)		MIX	TYP	PE	Pľ	ГИАМЕ			SIGN PHALT		DES		
Iran	sporta	atior	YY	MM	DD						PAVING C	CONTRA	CTOR				QA CO	ONSULTA	.NT			RGET		VMA DES		
MAT 6-78/12													0.0				α					PHALT FENT (%)		LIFT THICK		
	LOT A	GGREG	SATE PR	ROPOR	TIONS	FOF	RMED MA	RSHALL	SPECIM		Α	SPHAL	T CON	TENT					L	OT PA			COMPACT	ON DATA		
DATE LAID	COARSE AGGREGATE 12.5mm %	MANUFACTURED FINES %	BLEND SAND %				SITY	* AIR VOIDS	* V.M.A.	MIX MOISTURE CONTENT	SAMPLE SOURCE	COL	EGMEN RRECTI SPHAL ^T ONTEN		TEST METHOD	SEGMENT #	STAT	+	LOCATION	LANE	LIFT	CORE	DENSITY	AIR VOIDS	** COMPACTION	CORE
(dd-mm-yyyy)		Σ	ш			(kg	/m³)	(%)	(%)	(%)			(%)			Ш	(00+	000)				(mm)	(kg/m³)	(%)	(%)	(%)
																1										
LC	OT PAVI	NG LIMI	ITS (km))	ı											2										
FROM	Т	0	LAN	NE	MAT											3										
																4										
																5										
																Ш										
																		LOT	MEA	N						
<u>ADDITIVE</u>		MAT				C Lots: cal									•							& V.M.A				
RA Reclaim CF Coarse Fines		R RighL Left			void	s using tare	get AC							ction =	(100)	X Lot	Mean	Density	/ (Lot N	/lean N	<i>M</i> arsha	II Density				
BS Blend Sand C 2nd Coarse			terline t Shoulde	r		шш						DATION								ΔSPH	ALT CC	NTENT C	ORRECTION	OT TONNAGE		
OR Other			Shoulder		TEST NO.	SAMPLE				SIEVE A	NALYSIS	- % PA	SSING	(µm)						ASFIL			or QC ACCEF	` ,		
TEST METHOD FE Filterless Extra	action	<u>LANE</u> N North	nbound		NO.	SAI	25,000	20,000	16,000	12,500	10,000	5,000	1,250	630	315	16	60	80					COMME	NTS		
NU Nuclear RE Reflux		S SouthW West	hbound		1														1							
FC Filter Centrifug			bound		2																					
IG Ignition OR Other	_				3 4														-							
SAMPLE SOURCE	E CODE	LIFT			5												\dashv		1							
CO Core		B Botto															<u> </u>		TEG	NO. C	01070					
BP Behind Paver CF Cold Feed		T Top LO Other															丁		TECH	INOLO	GISTS :					
OR Other																		_	С	ONSUL	TANT :					
	LO	T MEA	N														\dashv				NAGER					
				.1	IOB MIX F	ORMULA											-		R	ECEIVI	ED BY :		*** Co	ontractor's Repres	entative	
TOLERAN	CES FOF	R THE LO	T MEAN					± 5	± 5	± 5	± 5	± 5	± 3	± 2	± 2	± 1	1.5	± 1.5	DA ⁻	TE REC	CEIVED			TIME		
MAXIMUM RAN	GE BETV	VEEN IN	DIVIDUAL	_ TEST F	RESULTS	IN A LOT		10	10	10	10	10	6	5	4	-	3	3					es receipt of data	a on the date and	time indicated	d

LOT PAVING REPORT

						ı		. / \ \		IVLI							ı									
1			CON	NTRACT	NO.		PROJE	CT NO.			PROJE	ECT FRO	OM		LO	TN	O. 1	MST D	ESIGN I	NO.		SIGN NSITY	2370		SIGN	3.5
Albe	nt 1	àΠ)	XXXXX	X											1					(k	g/m ³)		AIR V	OIDS (%)	
			WE	EK END	ING	CL	NO.	Α	CS		PRO	JECT TO)			TYI	PE	PIT	NAME			SIGN PHALT	5.4		SIGN	13.5
Tran	sport	atior	YY	MM	DD	0.	110.	, ,								M1					CONT	ΓΕΝΤ (%)	J.7		MA (%)	13.3
			уу	mm	dd	HW	XX		ХX		PAVING C	ONTRA	CTOR				QA CONS	SULTA	NT			RGET PHALT	5.4		SIGN HICKNESS	50
MAT 6-78/12	LOTA	00050	ATE DE	20000	TIONS	F01	DATED MA	DOLLALI	CDECIM	-NC		CDUAL	TOON	TENT		Г			10	- DAV		TENT (%)	OMPACTION		mm)	
	LOTA	GGREG	AIEP	ROPOR	IIONS	FOI	KMED MA	RSHALL	SPECIMI		,	SPHAL	T CON	IENI		!			LO	I PAV	EMEN	I AND C	OMPACTION	NDATA		1
DATE LAID	COARSE AGGREGATE 12.5mm %	MANUFACTURED FINES %	END SAND %			DEN	ISITY	* AIR VOIDS	* V.M.A.	MIX MOISTURE CONTENT	SAMPLE SOURCE	COI	EGMEN RRECT SPHAL ONTEN		TEST METHOD	SEGMENT #	STATION	+ OR -	LOCATION	LANE	LIFT	CORE	DENSITY	AIR VOIDS	** COMPACTION	CORE
(dd-mm-yyyy)		Μ	ПВ			(kg	/m³)	(%)	(%)	(%)			(%)				(00+000))				(mm)	(kg/m ³)	(%)	(%)	(%)
1-Jan-2013	80	15	5			23	59	3.8	14.0	0.05	BP		5.53		IG	1	7+861	-	4.3	S	В	45	2275	7.2	96.0	0.61
L	OT PAV	NG LIM	ITS (km))		23	81	2.9	13.2	0.04	BP		6.01		IG	2	2+255	5 -	2.0	S	В	50	2290	6.6	96.6	0.44
FROM	Т	0	LAI	NE	MAT	23	375	3.2	13.5	0.07	ВР		5.60		IG	3	9+872	2 -	0.7	S	В	52	2282	6.9	96.2	0.63
7+183	13+	239	Е	=	R	23	869	3.4	13.7	0.05	ВР		5.28		IG	4	11+54	3 -	4.4	S	В	48	2350	4.2	99.1	0.35
						23	371	3.3	13.6	0.04	BP		5.38		IG	5	12+76	7 -	2.5	S	В	47	2298	6.3	96.9	0.33
								0.0		0.0.			0.00			Ħ			\					0.0		
																Н										
																		+								
												-	_	-		Н			\							
						23	371	3.3	13.6	0.05			5.56				L	ОТ	MEA	N		48	2299	6.2	97.0	0.47
ADDITIVE .		MAT_				C Lots: cal		13.5								ntent to ca							6.4			
RA Reclaim CF Coarse Fines		R RightL Left	it		Void	s using tar	get AC					lean %		ction =	(100)	X Lot	t Mean De	ensity)	/ (Lot I	/lean I	/larsha	III Densit		20101005	172	5.40
BS Blend Sand C 2nd Coarse		C Cent	terline	\r_		шш													ΔSE	ΗΔΙΤ	CONTE	NT CORE	RECTION FAC	ONNAGE		.86
OR Other		LS Left			TEST	MPL				SIEVE AI	NALYSIS	- % PA	SSING	(µm)					Aoi	IIALI			C ACCEPTAN	, ,		C
TEST METHOD		LANE			NO.	SAMPLE	25,000	20,000	16,000	12,500	10,000	5,000	1,250	630	315	1	160	80				,	COMMENTS	S		
FE Filterless Extra NU Nuclear	action	N North							·	12,300	·	·	, i						STAN	IDARD S	SPECIFIC	CATIONS F	OR HIGHWAY C	ONSTRUC	TION - EDITIO	ON 14, 2010
RE Reflux		W West	bound		1	BP	100	100	100	98	89	63	32	23	13	1		5.2	_ ا				1			F 40.61
FC Filter Centrifuç IG Ignition	ge	E East	bound		2	BP BP	100	100	100	99	91	61	32	24	15	1		5.2 5.0	Q	A ASPI	nait Co	ontent on	loose mix fro	ım Behin	a Paver = :	5.48 %
OR Other	_				<u>3</u>	BP	100	100 100	100	98 97	89 84	58 53	30 26	23 20	14	-		5.3	ł							
SAMPLE SOURC	E CODE	LIFT			5	BP	100	100	100	98	89	62	32	24	15			3.0	1							
CO Core		B Botto					123										İ			NO: 5	010=0					
BP Behind Paver CF Cold Feed		T Top L O Othe			QA1	BP	100	100	100	98	86	57	29	21	12	8	3.3 5	5.2	TECH	INOLO	GISTS :					
OR Other					QA2	BP	100	100	100	98	88	59	31	23	14			5.6	С	ONSUL	TANT:					
	LO	T MEA	N			1-5	100 100	100 100	100	98	88	59	30		14			5.7	PROJE	CT MAI	NAGER					
			-			QA	100	98	87	58	30	22	13			5.4	R	ECEIVI	ED BY :	1	*** 00-1-	actoric De-	rocontotico			
TOLER	000000) THE ! ^	T 14E 47			FORMULA	100	100	100	98	88	60	31	23	14	•		3.4	ł				-^^ Contra	•	resentative	
								± 5	± 5	± 5	± 5	± 5	± 3	± 2	± 2	-		1.5	DA.		CEIVED			TIME		
IVIAXIIVIUM KAN													6	5	4		3	3		***	Signatur	e indicates	receipt of data or	the date a	nd time indica	ted

LOT PAVING REPORT

An	L			NTRACT			PROJE	CT NO.	1110		PROJI	ECT FRO	M		LO	T N	Ю.	MST	DE	SIGN N	Ю.	DE	SIGN NSITY	2370		SIGN OIDS (%)	3.5
Albe	M			EK END							PRO	JECT TO)		MIX	TY	PE	F	PIT N	IAME		DE	g/m³) SIGN		Di	ESIGN	
Tran	sport	atior	YY	MM	DD	CL	NO.	Α	CS							M1						CONT	PHALT ENT (%)	5.4	VN	ЛА (%)	13.5
MAT 6-78/12			уу	mm	dd	нw	ХX		ХХ	ı	PAVING C	CONTRAC	CTOR				QA CC	ONSULT	AN ⁻	Γ		ASI	RGET PHALT	5.4	LIFT TH	SIGN HICKNESS	50
IVIA 1 0-70/12	LOT A	AGGREG	SATE P	ROPOR	TIONS	FOR	RMED MA	RSHALL	SPECIMI	ENS	ļ	SPHAL	T CON	TENT						LOT	PAV		ENT (%) T AND C	OMPACTIO		mm)	
		Ω	٠,0							Ш.		C.F	GMEN	_									m			Z	l
DATE LAID	COARSE AGGREGATE 12.5mm %	MANUFACTURED FINES %	END SAND %			DEN	ISITY	* AIR VOIDS	* V.M.A.	MIX MOISTURE CONTENT	SAMPLE SOURCE	COF AS	RRECTI SPHAL ^T ONTEN		TEST METHOD	SEGMENT #	STAT	TION	+ OR -	LOCATION	LANE	LIFT	CORE	DENSITY	AIR VOIDS	** COMPACTION	CORE
(dd-mm-yyyy)	,	MA	BL			(kg	/m³)	(%)	(%)	(%)			(%)				(00+0	000)					(mm)	(kg/m ³)	(%)	(%)	(%)
1-Jan-2013	80	15	5			23	59	3.8	14.0	0.05	СО		5.53		IG	1	7+8	61	-	4.3	S	В	45	2275	7.2	96.0	0.61
LO	OT PAV	ING LIM	ITS (km)		23	81	2.9	13.2	0.04	CO		6.01		IG	2	2+2	255	-	2.0	S	В	50	2290	6.6	96.6	0.44
FROM	Т	0	LA	NE	MAT	23	75	3.2	13.5	0.07	СО		5.60		IG	3	9+8	72	-	0.7	S	В	52	2282	6.9	96.2	0.63
7+183	13+	-239	E	Ē	R	23	869	3.4	13.7	0.05	СО		5.28		IG	4	11+	543	-	4.4	S	В	48	2350	4.2	99.1	0.35
						23	371	3.3	13.6	0.04	СО		5.38		IG	5	12+7	767	-	2.5	S	В	47	2298	6.3	96.9	0.33
												\															
						23	371	3.3	13.6	0.05			5.56					LOT	M	IEAI	١		48	2299	6.2	97.0	0.47
ADDITIVE		<u>MAT</u>			For QC	C Lots: cal	culate air				* Use	Lot Me	an Corr	ected	asphal	t cor	ntent to	calcul	ate	Marsh	all Air	Voids	& V.M.A	١.			
RA Reclaim CF Coarse Fines		R Right L Left			void	s using tar	get AC							ction =	(100)	X Lot	t Mean	Densit	y) /	(Lot M	lean N	/larsha	II Density	•			
BS Blend Sand		C Cen	terline			шШ					GRAI	DATION							4	A CDI	IALT	CONTE	NT CODE	LOT TO RECTION FAC	ONNAGE		5.40 .86
C 2nd Coarse OR Other		RS Righ LS Left	Shoulder		TEST NO.	SAMPLE				SIEVE AI	NALYSIS	5 - % PA	SSING	(µm)					ŀ	ASFI	TALI			C ACCEPTAN			.00 !A
TEST METHOD FE Filterless Extra	action	LANE N North	nbound		NO.	SAI	25,000	20,000	16,000	12,500	10,000	5,000	1,250	630	315	1	160	80		STANI	DARD S	SPECIFIC	CATIONS F	COMMENT:		TION - EDITIO	ON 14, 2010
NU Nuclear RE Reflux		S South West			1	CO	100	100	100	98	89	63	32	23	13	8	3.4	5.2									
FC Filter Centrifug	ge	E East			2	CO	100	100	100	99	91	61	32	24	15		9.5	6.2									
IG Ignition OR Other	_				4	CO	100	100 100	100	98 97	89 84	58 53	30 26	23 20	14 13		9.2 3.3	6.0 5.3	-								
SAMPLE SOURCE	F CODE	LIFT			5	CO	100	100	100	98	89	62	32	24	15		9.2	6.0	-								
CO Core		B Botto																	#	TEQ! "	VOI 01	OLOTO					
BP Behind Paver CF Cold Feed		T Top IO Othe																		TECHI	NOLO(: ۱۵ داد					
OR Other						4 -	400	460	465	0.0	-	-	-	00	4.				4			TANT :					
	LC	T MEA	N			1-5	100	100	100	98	88	59	30	23	14	8	3.9	5.7	+			NAGER :					
				J	OB MIX F	FORMULA	100	100	100	98	88	60	31	23	14	9	9.5	6.4	╅	KE	CEIVE	D BY :		*** Contr	actor's Rep	resentative	
TOLERAN	CES FO	R THE LO	T MEAN					± 5	± 5	± 5	± 5	± 5	± 3	± 2	± 2	-	1.5	± 1.5	7	DAT	E REC	EIVED			TIME		
MAXIMUM RAN	GE BET\	WEEN IN	DIVIDUA	L TEST F	RESULTS	S IN A LOT		10	10	10	10	10	6	5	4		3	3			*** 5	Signature	indicates	receipt of data or	the date a	nd time indica	ted

	LC	OT P	AVI	NG	REI	POR	T - Q	A Tes	sting	usin	g Ma	axim	um	Sp	ecific	Gra	viti	es											
Mha	erto	2 51		TRACT			PROJI	ECT NO.			PROJE	ECT FRO	M		LОТ 2		MS	ST DESIG	N NO.	DE	SIGN NSITY g/m³)	2364		SIGN DIDS (%)	3.5		G of EGATE	2.689	
	sporta		WEE	K END MM	ING DD	CL	NO.	А	CS		PRO	JECT TC)		MIX 7			PIT NAM	IE	ASI	SIGN PHALT ENT (%)	5.6		SIGN A (%)	14.5		m at gn AC	2450	
MAT 6-78/19			уу	mm	dd	HW	хх		xx	P	AVING C	ONTRA	CTOR			QA C	ONSUL	TANT		TA ASI	RGET PHALT ENT (%)	5.6	LIFT TH	SIGN IICKNESS nm)	20				
	LOT A	GGREG	ATE PR	OPOR	TIONS		FO	RMED MAI	RSHALL	SPECIMEN	NS		А	SPHA	LT CONTE	NT						LOT PA	/EMENT	AND COMP	ACTION D	ATA			
DATE LAID	COARSE GGREGATE 2.5mm %	MANUFACTURED FINES %	BLEND SAND %			DEN	SITY	Max Spec Gravity (G _{mm})	* AIR	VOIDS	* V.M.A.	MIX MOISTURE CONTENT	SAMPLE SOURCE	CO A	EGMENT PRRECTED ASPHALT CONTENT	TEST	SEGMENT #	STATIO	z + OR -	LOCATION	LANE	LIFT	CORE	CORE DENSITY	AIR	VOIDS	(calcu Core Co	PACTION lation of impaction ot required)	CORE
(dd-mm-yyyy)	CC AGG 12.3	MAN	BLE			(kg/	'm³)	(kg/m³)	(% by G _{mm})	using AV Table	(%)	(%)	0, 0,		(%)		IS	(00+000))				(mm)	(kg/m ³)	(% by G _{mm})	using AV Table	% by G _{mm}	by Marshall Density	(%)
1-Jan-2013	80	15	5			23	71	2449	3.2	3.3	16.4	0.02	ВР		5.34	IG	1	0+00	1 +	1.3	N	В	20	2162	11.4	11.9	88.6	91.4	0.81
LC	OT PAVII	NG LIMI	TS (km)			23	58	2437	3.2	3.9	16.8	0.02	BP		5.37	IG	2	0+00	1 +	2.3	N	В	20	2253	7.6	8.2	92.4	95.2	0.91
FROM	TO	TO LANE MAT 2373 2436 2.6 3.3 16.3 0.02 BP 5.48 IG 3 0+001 + 2.0 N B 20 2214 9.2 9.8 90.8 +239 E R 2371 2439 2.8 3.4 16.4 0.02 BP 5.55 IG 4 0+001 + 1.7 S B 20 2201 9.8 10.3 90.2															93.6	0.77											
7+183	13+2	O LANE MAT 2373 2436 2.6 3.3 16.3 0.02 BP 5.48 IG 3 0+001 + 2.0 N B 20 2214 9.2 9.8 90.8 90.8 90.8 90.8 90.8 90.8 90.8															93.0	0.26											
			E R 2371 2439 2.8 3.4 16.4 0.02 BP 5.55 IG 4 0+001 + 1.7 S B 20 2201 9.8 10.3 90.2															94.6	0.37										
	TO LANE MAT 2373 2436 2.6 3.3 16.3 0.02 BP 5.48 IG 3 0+001 + 2.0 N B 20 2214 9.2 9.8 90.8 9 13+239 E R 2371 2439 2.8 3.4 16.4 0.02 BP 5.55 IG 4 0+001 + 1.7 S B 20 2201 9.8 10.3 90.2 9																												
	TO LANE MAT 2373 2436 2.6 3.3 16.3 0.02 BP 5.48 IG 3 0+001 + 2.0 N B 20 2214 9.2 9.8 90.8 93.0 13+239 E R 2371 2439 2.8 3.4 16.4 0.02 BP 5.55 IG 4 0+001 + 1.7 S B 20 2201 9.8 10.3 90.2 93.0																												
	2360 2434 3.0 3.8 16.8 0.02 BP 5.53 IG 5 0+001 + 2.9 S B 20 2239 8.2 8.7 91.8 94.6																												
						2367 2439 3.0 3.5 16.5 0.02 5.45 LOT MEAN 20 2214 9.2 9.8 90.8															93.5	0.62							
ADDITIVE RA Reclaim	<u>!</u>	MAT R Right	t				* Use Lo	t Mean Cor Marshall A											**	% CO	MPACTI	,	•	t Core Dens (Gmm-Core	• , ,		all Density)		
CF Coarse Fines BS Blend Sand	l	L Left C Cente	erline						·	**		RADATIC		,										TONNAGE			5.40		
C 2nd Coarse OR Other		RS Right LS Left S	Shoulder	r	TEST	SAMPLE				SIEVE	E ANALY:	SIS - % F	PASSING	G (µm))				ASP	HALT				CTOR (%)			.86	-	
			Silouidei		NO.	SAMI							1								MQA (QA or QC	ACCEPTA	NCE LOT) COMM	MENTS	(C		
TEST METHOD FE Filterless Extra		<u>LANE</u> N Northl				0, 0,	25,000	20,000	16,000	12,500	10,000	5,000	1,250	630	315	160	8	30		TAND	400 0		TIONO			VOTOLIOT	ON FRIT	ON 45 00	40
NU Nuclear RE Reflux	,	S South W Westb	bound cound		1	BP	100	100	100	98	89	63	32			8.4		5.2						OR HIGH	WAY COI				13
FC Filter Centrifug IG Ignition	ge l	E Easth	oound	ŀ	3	BP BP	100 100	100 100	100 100	99 98	91 89	61 58	32 30			9.5 9.2		5.2 5.0				ir voids ir voids				exam	ple Com	ments	
OR Other	-				4	BP	100	100	100	97	84	53	26			8.3		5.3				nix fron				Core	Density	< 97%	
SAMPLE SOURCE	CODE I	<u>LIFT</u>			5	BP	100	100	100	98	89	62	32			9.2								n sieves)	R			@ 2:00p	m
CO Core BP Behind Paver	. <u> </u>	B Bottor T Top L		Ī																	ECUNIO	OCIETE							
CF Cold Feed		O Other		ſ	QA1	BP	100	100	100	98	86	57	29	21	12	8.3	5	5.2			ECHNOI	LOGISTS :							
OR Other					QA2	BP	100	100	100	98	88	59	31	23	14	8.7	5	5.6			CONS	SULTANT :							
	10	T MEAN	\ \			1-5	100	100	100	98	88	59	30	23	14	8.9	5	5.7		PRO	JECT M	ANAGER :							
		- WILAI				QA	100	100	100	98	87	58	30	22		8.5		5.4			RECE	IVED BY:							
						ORMULA	100	100	100	98	88	60	31			9.5		5.4						*** Cont	ractor's Rep				
TOLERANG								± 5	± 5	± 5	±5	±5	± 3	± 2		± 1.5		1.5		I	DATE RE	CEIVED :		tion in direct	TIME :		ton a total of the	4	
MAXIMUM RANG	jE BETW	LEN IND	UAUUIVII	IEST R	ESULTS	IN A LOT		10	10	10	10	10	6	5	4	3		3					*** Signa	ature indicates re	eceipt of data o	on the date and	ime indicated		

SUPERPAVE LOT PAVING REPORT

Albe	at a		CON	ITRACT I	NO.		PROJE	CT NO.			PROJI	ECT FROM	М		LC	OT NO	D. MS	ST DE	ESIGN N	NO.	DEI (kạ	SIGN NSITY g/m³)		DES AIR VOI		
Trans			YY	EK ENDII	NG DD	CL	NO.	А	CS		PRO	JECT TO			MIX	X TYF	PE	PIT	NAME		ASF	SIGN PHALT ENT (%)		DES VMA		
ITATIS	ρυπα	LIOI									PAVING C	CONTRAC	TOR				QA CONSUL	TAN	Т		TAI	RGET PHALT		DES		
MAT 6-78S/12																					CONT	ENT (%)		LIFT THICK	NESS (mm)	
				G			MED SPE	CIMENS					MI	X					LO	ΓPAV	EMEN	Γ AND C	OMPACTI	ON DATA		
DATE LAID	DENS			Т		ENSITY of Gmm)			* V	OLUMETR @ N _{design}		Maxir Spec		CORRI D ASP	HALT	# 5	STATION		NO			CORE THICKNESS	DENSITY	AIR VOIDS	** CORE	CORE
	@N _d	lesign	Cir	ni	C	des	C _n	nax	AIR VOIDS	V.M.A.	V.F.A.	Gra		CONT (T.M)	SEGMENT		+ OR	LOCATION	LANE	Fil	O HE			DENSITY % of G _{mm}	CC
(dd-mmm-yyyy)	(kg/ı	m ³)							(%)	(%)	(%)	Gm	nm	(%	5)		(00+000)	Ш				(mm)	(kg/m ³)	(%)	(%)	(%)
																1										
LOT AGGREGATE																2										
PROPORTIONS																3										
COARSE AGG. %																4										
MF %																5										
BLEND SAND %																										
RAP %																										
																		Ħ								
																					<u> </u>					
																	LO	T N	IEAN	1						
ADDITIVE RA Reclaim		MAT R Righ	t		* U:	se Lot Me	an Correc	ted Asph	alt Conte	nt to calcul	ate Gyrato	ry V.M.A.	%.				** % (Comp	action	= (Roa	ad Dry	Density)	/ (Lot Mea	n Maximum	Specific Gra	avity / 10)
CF Coarse Fines BS Blend Sand	Į.	L Left C Cent	erline	-								GRAD	ATION										LC	T TONNAGE		
C 2nd Coarse	į.	RS Right	Shoulde	r	TEST	SAMPLE					SIEVE AN	ALYSIS -	· % PAS	SING (L	ım)									FACTOR (%)		
OR Other	-	LS Left	Snoulder		NO.	AMF		1		ı	ı	ı		``	,		T.						QC ACCEP	TANCE LOT)		
TEST METHOD FE Filterless Extracti NU Nuclear		LANE N North	bound			S) S)	25,000	20,000	16,000	12,500	10,000	5,000	2,500	1,250	630	3	15 16	0	8	0	COMN	MENTS				
RE Reflux		W West	bound		1																					
FC Filter Centrifuge IG Ignition	ľ	E East	bound	-	3																	2014	ı	/ING LIMITS	r` '	I
OR Other				-	4																F	ROM	TO	LANE	MAT	
SAMPLE SOURCE O	CODE	LIFT			5																					
CO Core	ı	B Botto		F																						
BP Behind Paver CF Cold Feed		T Top L O Othe		F																		TECHNO	DLOGISTS :		,	•
OR Other																						CON	ISULTANT :			_
	LOT	MEAN	1			1-5															PF	ROJECT I	MANAGER :			
					DD 1407						<u> </u>]											EIVED BY :	ntative		
TOLERANC	ES EOD	THE LO	TMEANI			FORMULA					<u> </u>			. 2			.2	_	. 4	E						
MAXIMUM RANG								± 5	± 5	± 5	± 5	±5	± 5	± 3	±2 5	_	±2 - 4 -		± 1			E REC'D		data on the date	TIME	
IVII O CIIVIO IVI TOAINO	1 7 7							10	10	10	10	10	10	U	J					,	■ Sigi	iature midic	ares receibi oi	uata un the date	and time matc	aidu

SUPERPAVE LOT PAVING REPORT

		_							. /\\.	110 11	. — .	, i \ i								_		_	·		
1		CO	NTRACT	NO.		DDO II	CT NO.			PROJI	ECT FRO	M		LC	OT NO.	. M	ST D	ESIGN N	10.		SIGN NSITY	2240	DES	IGN	4.0
Miss	ntan		xxxx	X		PROJE	CT NO.								1						g/m³)	2310	AIR VO	DS (%)	4.0
JA (De	$m\omega$	W	EEK END	ING				1		PRO	JECT TO			MI	X TYPE	E	PIT	NAME			SIGN		DES	ICN	
Trans	sportation	YY	MM	DD	CL	NO.	Α	CS							C-12						PHALT FENT (%)	6.0	VMA		15.0
IIaik	spoi tatioi			ماما	1.134/	VV				PAVING C	CONTRAC	TOR				QA CONSU	LTAN	IT		TA	RGET	6.0	DES	IGN	20
MAT 6-78S/12		уу	mm	dd	HW	XX		XX													PHALT <u>[ENT (%)</u>	6.0	LIFT THICK	NESS (mm)	30
			(GYRAT	ORY FOR	RMED SPI	CIMENS	3				MI	Χ					LOT	ΓPAV	/EMEN	T AND (COMPACTI	ON DATA		
					ENSITY			* V	OLUMETR	RICS			CORR	ECTE							S			**	
DATE LAID	DENSITY			(%	of Gmm)				@ N _{design}	1	Maxir		D ASP		# E	CTATION	١.	Z			CORE	DENOITY	AID VOIDO	CORE	CORE
	@N _{design}		o S _{ini}		C _{des}	C	max	AIR	V.M.A.	V.F.A.	Spe Gra		CONT	LENT	MEN	STATION	OR.	LOCATION	LANE	FFI	8 5	DENSITY	AIR VOIDS	DENSITY % of G _{mm}	SIO IS
			-ini		des		пах	VOIDS	v.ivi.A.	V.I .A.		,	(T.M)	SEGMENT		+	9	-	-	Ė			% Of G _{mm}	Σ
(dd-mmm-yyyy)	(kg/m ³)							(%)	(%)	(%)	Gm	nm	(%	6)	"	(00+000)					(mm)	(kg/m ³)	(%)	(%)	(%)
1-Jan-2013	2308	8	4.0	9	92.9	94	1.2	7.2	16.4	75.0	2.4	.88	5.5	•	1	12+000	Τ-	4.3	s	В	45	2173	12.7	88.2	1.54
LOT	2329	+ -	6.0		95.6		7.2	4.4	15.6	75.0	2.4		6.0		_	12+800	_	2.0	s	-	50	2181	12.3	88.5	1.40
AGGREGATE						<u> </u>					-					_	+			В				88.9	1.48
PROPORTIONS COARSE	2346	_	5.5	1	95.4	+	7.0	4.6	15.0	74.0	2.4		5.6		3	23+450	_	0.7	S	+	52	2190	12.0		
AGG. % 54	2330	84	4.8	,	94.2	9	5.7	5.8	15.6	73.0	2.4	74			4	12+155	_	4.4	S	_	48	2208	11.3	89.6	1.03
MF % 23													5.3	38	5	13+456	1	2.5	S	В	47	2238	10.0	90.8	0.66
BLEND SAND % 16																									
RAP % 7																									
																		•							
	2328	85.1 94.5 96.0 5.5 15.7 74.3 2.464 5.56 LOT MEAN														1		48	2198	11.7	89.2	1.22			
				* 1	In a I at Mi		-41 ^1	-14 04		-1- 0:1-		0/				** 0/ /		4:	/D -	I D	D :t)	\	. Massissons	0ifi- 0-	it / 40\
ADDITIVE RA Reclaim	MAT R Ri	ght			JSE LOUIVIE	ean Corre	cied Aspr	iait Contei	it to calcul	ale Gyralo	ry V.IVI.A.	. %.				% (JOIN	paction	= (KC	Dad Dry	Density,) / (Lot iviea	n Maximum	Specific Gr	avity / 10)
CF Coarse Fines	L Le	eft							_		GRAD	ATION								T		10	T TONNAGE	200	0.00
BS Blend Sand C 2nd Coarse		enterline ght Should	ler		щЖ						_									1	A.C. CO	RRECTION I		-0.	
OR Other		ft Shoulde		TEST	SAMPLE					SIEVE AN	IALYSIS -	- % PAS	SSING (µm)						MC		QC ACCEP	` '		(A
TEST METHOD	LANE			NO.	SAI	25 000	20,000	16,000	10 500	10.000	F 000	2 500	1.050	620	24	F 46	.0	0	0	COM	MENTS			•	
FE Filterless Extrac		rthbound				25,000	20,000	16,000	12,500	10,000	5,000	2,500	1,250	630	31	5 16	O O	8	U	STD.	SPECIFIC	ATIONS FOR H	IWY CONSTRU	CTION - EDITION	ON 14, 2010
NU Nuclear RE Reflux		uthbound estbound		1	CO	100	100	100	95	83	50	33	25	19	14	_		5.							
FC Filter Centrifuge	E Ea	astbound		2	СО	100	100	100	96	85	51	33	24	18	14	_	_	5.				_	/ING LIMITS		
IG Ignition OR Other				3	CO	100	100	100	96	85	54	35	25	19	14	_		6.			ROM	TO	LANE	MAT	4
CAMPLE COURCE	CODE			5	CO	100	100 100	100	96 96	84 82	51 49	33 32	24	18 18	14		_	5. 5.		10	+000	11+000	E	R	-
SAMPLE SOURCE CO Core		ttom Lift		-	1 00	100	100	100	96	ŏ∠	49	<u>32</u>	<u> </u>	Ιδ	<u> </u>	-, 0.	o	ე.	+	╂		1			1
BP Behind Paver	T To	p Lift		_										<u> </u>						╁	TECHN	OLOGISTS :			<u> </u>
CF Cold Feed OR Other	O Ot	ner Lift		\vdash	1															1		NSULTANT :			
				-	1-5	100	100	100	96	84	51	33	24	18	14	4 9.	2	5.	6	PI		MANAGER :			
	LOT ME	AN				1					<u> </u>	-	<u> </u>		<u> </u>		_	<u> </u>		1		CEIVED BY :			
			J	JOB MIX	FORMULA	100	100	100	96	82	49	30	20	15	10	0 6.	2	3.	9	1		ctor's Represer			
TOLERANG	CES FOR THE L	OT MEAN	I FROM J	JOB MIX	FORMULA	4	± 5	±5	±5	±5	±5	± 3	± 3	±2	±2	2 -		± 1	.5	DAT	E REC'D			TIME	
MAXIMUM RAN	GE BETWEEN I	NDIVIDUA	AL TEST I	RESULT	S IN A LOT	Γ	10	10	10	10	10	10	6	5	4	-		3	3	*** Sig	nature indic	cates receipt of	data on the date	and time indic	cated

HIR LOT PAVING REPORT

						.,	<u> </u>	****	O IVE	<u></u>	<u> </u>												
Albe	enta n	С	ONTRAG	CT NO.		PROJE	CT NO.			PROJ	ECT FROM	LO	TN	IO. MS	T DI	ESIGN N		DEI (k	SIGN NSITY g/m³)			ESIGN OIDS (%)	
74 (146		٧	/EEK EN	NDING						PRC	JECT TO	MIX	(TY	/PE	PIT	NAME			SIGN		DE	SIGN	
Trans	sportation	YY	MM	DD	CL	NO.	Α	CS										_	PHALT ENT (%)			131GN MA (%)	
	oportatio.									PAVING (CONTRACTOR			QA CONSUL	TAN	IT			RGET		DE	SIGN	
MAT C 7011/40																			PHALT			HICKNESS	
MAT 6-78H/12	1	ADDITI	/F0	l				MIV OI	LABAGTE	DIOTION			1				- DAV		ENT (%)			mm)	
		ADDITI	/ES	_				MIX CF	IARACTE							LOI	PAVI	MEN	AND C	OMPACTION	DAIA		
DATE LAID	AD	ADMIX REJUV. AGENT TYPE XX MAXIMUM SPECIFIC GRAVITY MARSHALL DENSITY AIR VOIDS ASPHALT CONTENT RECOVERED ASPHALT PEN. ASPHALT PEN. STATION B STATION B STATION B STATION B STATION B SS SS SS SS SS SS SS SS SS														** COMPACTION	CORE						
(dd-mm-yyyy)	% Added	Coati	ng %	Rejuv. %	(G	_{mm})	(kg	/m ³)	(%)	(%)	(%)		"						(mm)	(kg/m³)	(%)	(%)	(%)
													1										
	LOT PAVING L	IMITS (k	m)										2										
FROM	ТО	LA	NE	MAT									3										
													4										
													5										
													۲										
													1										
													_										
														LO	T	ИЕА	N						
				* Use Maxii	num Spe	cific Grav	ity and M	arshall De	ensity to ca	alculate A	Air Voids.							Dry D	ensity) /	(Lot Mean M	aximum	Specific G	ravi

^{*} Use Maximum Specific Gravity and Marshall Density to calculate Air Voids.

^{** %} Compaction = (Road Dry Density) / (Lot Mean Maximum Specific Gravity / 10

REJUVINATING AGENT								GRAI	OITAC	1					LO1	Γ SQUARE METERS	
CY Cyclogen "L" Blend RE Rejuvoil "1" OR Other		TEST NO.	SAMPLE				SIEVE A	NALYSIS	S - % PA	ASSING	(µm)						
FE Filterless Extraction	MAT R Right		SA	25,000	20,000	16,000	12,500	10,000	5,000	1,250	630	315	160	80		COMMENTS	
NU Nuclear RE Reflux	L Left C Centerline	1															
	RS Right Shoulder	2															
	LS Left Shoulder	3															
OR Other		4															
SAMPLE SOURCE CODE	<u>LANE</u>	5															
	N Northbound														TECHNOLOGISTS:		
BP Behind Paver CF Cold Feed	S Southbound W Westbound														TECHNOLOGISTS.		
OR Other	E Eastbound														CONSULTANT:		
	OT MEAN		1-5												PROJECT MANAGER :		
<u>'</u>	OT WEAN														RECEIVED BY :		
	·	JOB MIX FC	RMULA													*** Contractor's	Representative
MAVIMUM DEDMICEARUE	VADIATION FROM THE		ALII A (./)		ENTER	R AS SPE	CIFIED		±6	±5	±4	±3.5	±3.0	±2.5	DATE RECEIVED	TIME	
MAXIMUM PERMISSABLE	VARIATION FROM THE J	IOD WIIX FORM	/IULA (+/-)		IN TH	IE CONTR	RACT								*** Signature indicates re	eceipt of data on the date ar	d time indicated

HIR LOT PAVING REPORT

M	L . –	С	ONTRAC			PROJE	ECT NO.			PROJE	ECT FROM	ı	ьот 1		MS		SIGN N	NO.	DE	SIGN NSITY g/m³)	2350		ESIGN OIDS (%)	2.6
Albe	enortation	YY	VEEK EN		CL	NO.	А	CS		PRO	JECT TO	N		TYPE		PIT	NAME Rive	r #2	DE ASI	SIGN PHALT	5.7		ESIGN MA (%)	13.5
MAT 6-78H/12	sportation	уу	mm	dd	HW	XX		xx		PAVING C	CONTRACTOR		<u> 111</u>		CONSUL			:I #Z	TA ASI	ENT (%) RGET PHALT	5.7	DE LIFT TI	ESIGN HICKNESS	50
MAT 6-78H/12		ADDITI	/ES					MIX CH	IARACTE	RISTICS							LOT	PAVI		ENT (%) T AND C	OMPACTIO		mm)	
DATE LAID	ADI	MIX		REJUV. AGENT TYPE <u>CY</u>	MAXI SPEC GRA	CIFIC		SHALL ISITY	* AIR VOIDS	MIX MOISTURE CONTENT	ASPHALT CONTENT	RECOVERI ASPHALT PEN.	ED F	# SEGMENT #	ATION	+ OR -	LOCATION	LANE	LIFT	CORE	DENSITY	AIR VOIDS	** COMPACTION	CORE
(dd-mm-yyyy)	% Added	Coati	ng %	Rejuv. %	(G _r	_{mm})	(kg	/m³)	(%)	(%)	(%)	(dmm)		(00)+000)					(mm)	(kg/m ³)	(%)	(%)	(%)
1-Jan-2013	10	4.0	00	0.30	2.4	130	23	367	2.6	0.01	5.74			1 5·	+190	+	2.2	Е	1	54	2300	5.3	94.9	0.91
l	LOT PAVING LI	MITS (k	m)		2.4	25	23	350	3.1	0.02	5.71	83		2 6	+390	+	2.5	Ε	1	53	2289	5.6	94.4	0.78
FROM	TO	LA	NE	MAT	2.4	132	23	355	3.2	0.01	5.81		;	3 6	+990	+	3.0	Ε	1	48	2294	5.7	94.6	0.91
5+120	8+230	E		R	2.4	119	23	346	3.0	0.03	5.66		\	4 7·	+400	+	0.9	Е	1	51	2299	5.0	94.8	1.01
					2.4	115	23	360	2.3	0.01	5.71		4	5 8	+005	+	1.3	Ε	1	51	2310	4.3	95.3	1.10
					2.4	124	23	356	2.8	0.02	5.73	83			LO	T N	ΛΕΑ	N		51	2298	5.2	94.8	0.94

^{*} Use Maximum Specific Gravity and Marshall Density to calculate Air Voids.

^{** %} Compaction = (Road Dry Density) / (Lot Mean Maximum Specific Gravity / 10)

REJUVINATING AGENT								GRA	DATIO	١					LO	T SQUARE METERS	11,510
CY Cyclogen "L" Blend RE Rejuvoil "1" OR Other		TEST NO.	SAMPLE				SIEVE A	NALYSIS	6 - % P/	ASSING	(µm)						
E Filterless Extraction	MAT R Right		os √s	25,000	20,000	16,000	12,500	10,000	5,000	1,250	630	315	160	80	Recovered as	COMMENTS phalt penetration is for	or Lot 5.
IU Nuclear E Reflux	L Left C Centerline	1	CO	100	100	100	100	88	66	43	36	28	18.0	9.9	Testing now red	uced to one test per	five Lots.
C Filter Centrifuge	RS Right Shoulder	2	СО	100	100	100	98	87	68	44	38	26	17.0	10.0			
G Ignition	LS Left Shoulder	3	СО	100	100	100	99	89	70	42	38	27	16.0	10.5			
OR Other		4	СО	100	100	100	99	87	65	40	39	24	19.0	10.1			
SAMPLE SOURCE CODE	LANE	5	СО	100	100	100	100	82	69	41	35	28	19.0	9.3			
O Core P Behind Paver F Cold Feed	N Northbound S Southbound W Westbound														TECHNOLOGISTS:		
OR Other	E Eastbound														CONSULTANT:		
	LOT MEAN	<u>=</u>	1-5	100	100	100	99	87	68	42	37	27	17.8	10.0	PROJECT MANAGER :		
	LOT WEAN														RECEIVED BY :		
		JOB MIX FC	RMULA	100	100	100	99	85	65	39	34	25	15.0	8.9		*** Contractor's	Representative
MAXIMUM PERMISSABLI	VARIATION FROM THE	JOB MIX FORM	/JULA (+/-)			AS SPE			±6	±5	±4	±3.5	±3.0	±2.5	DATE RECEIVED *** Signature indicates in	TIME eceipt of data on the date an	nd time indicated

1	,		D	AILY COM	PACTION	REPORT - (GRADING .	AND SUBG	RADE	PROJECTS
Alb	etan nsportation	CONTRACT NO. :			% COMPLETED) :			QA CO	NSULTANT:
Tra	nsportation	PROJECT :			PROJECT FRO	M :			PROJE	ст то:
MAT 6-1/12	noportation	DATE TESTED :			CONTRACTOR	:			PRIME	CONSULTANT:
DEPTH BELOW GRADE	STATION	LOCATION	UNIFIED SOIL CLASSIFICATION SYSTEM (USCS)	PROC	MOISTURE	CONSTR	MOISTURE	COMPACTION	MODE	MODE - NUCLEAR "N" BALLOON "B" SAND "S" if "N" NUCLEAR CORRECTION FACTORS (ATT 48) DENSITY CORRECTION FACTORkg/m ³ MOISTURE CORRECTION FACTORkg/m ³
(m)	00+000		(0303)	kg/m³	%	kg/m³	%	%		REMARKS
		1			1	AVERAGE CO	OMPACTION			
COMMENTS:								TECHNOLOG	ISTS	
								PROJECT MAN	AGER	
								RECEIVED I	ВҮ	*** Contractor's Representative
								DATE RE	CEIVED	TIME
								*** Signa	ture indic	ates receipt of data on the date and time indicated

1	,		<u> </u>	DAILY CON	IPACTION	REPORT -	GRADING	AND SUBG	RADE	PROJECTS			
Alb	erta nsportation	CONTRACT NO. :	XXX	XXX	% COMPLETED) :		10%	QA CON	ISULTANT :			
Tra	nenortation	PROJECT :	Hwy 2	XX:xx	PROJECT FRO	M :			PROJEC	CT TO:			
MAT 6-1/12	risportation	DATE TESTED :	1-Jan-	-2013	CONTRACTOR	:			PRIME (CONSULTANT :			
WAT 0-1/12				PRO	CTOR	CONST	RUCTED	I		MODE - NUCL	EAR "N" BAL	LOON "B"	SAND "S"
DEPTH BELOW GRADE	STATION	LOCATION	UNIFIED SOIL CLASSIFICATION SYSTEM	DENSITY	MOISTURE	DENSITY	MOISTURE	COMPACTION	MODE	if "N" NUCLEAR DENSITY CORRE MOISTURE COR	ECTION FAC	TOR	RS (ATT 48) kg/m ³ kg/m ³
(m)	00+000		(USCS)	kg/m³	%	kg/m³	%	%			REMAR	KS	
0.00	22+620	cl	CI	1938	11.7	1972	12.0	101.8	В				
0.00	22+875	4 m Rt		1938	11.7	1960	12.1	101.1	В	These densities	are re-tests	s after we	eeks of rain.
0.00	23+245	3 m Rt		1938	11.7	1950	11.5	100.6	В				
0.00	20+520	1.5 m Rt		1938	11.7	1945	12.2	100.4	B Contractor has been ripping, discin			g, drying and	
0.00	20+810	cl		1938	11.7	1940	11.8	100.1	B recompacting roadtop as well as fini			shing ditches	
0.00	21+100	2m Lt		1938	11.7	1940	11.0	100.1	B and slopes.			es.	
0.00	18+960	3m Lt		1938	11.7	1935	11.9	99.8	В				
0.00	19+260	2m Lt		1938	11.7	1930	12.0	99.6	В				
0.00	19+580	2m Lt		1938	11.7	1930	12.5	99.6	В				
0.00	19+870	cl	CI	1766	15.0	1756	15.4	99.4	В				
0.00	20+250	2m Rt	CI	1938	11.7	1959	12.0	101.1	В				
0.00	21+470	2m Lt		1938	11.7	1944	12.1	100.3	В	REQUIRE	D COMPA	CTION =	100%
0.00	21+740	2m Lt		1938	11.7	1925	11.7	99.3	В				
0.00	22+010	3m Lt	CI	1804	15.3	1786	15.5	99.0	В				
						AVERAGE C	OMPACTION	ACTION 100.2					
COMMENTS:				TECHNOLOGISTS									
Verv heavy com	paction equipment	on this project (826	6 Cat and 4 padfoo	t drums).				PROJECT MAN	IAGER				
	e ripping the top 10	. , \	·	,									
		a		o oabgiado.				RECEIVED	BY	*** Cont	ractor's Re	enresents	ative
Layor and Donoi													
Layer and Densi	ity requirements (S	pecification 2.3 Gr	auing, 2.3.4.7.5.1)	. compacted is	ayers not to exce	eu o. rom in de	pui	DATERE	CEIVED	2-Jan-2013	I IIVIE		14.30

Revised December 2013 Appendix B.12

*** Signature indicates receipt of data on the date and time indicated

below 0.30m - compacted to 95%

0.0 to 0.30m - minimum average of 100% compaction (with no tests <97%)



DAILY REPORT - GRANULAR BASE COURSE

USE	USE ALSO FOR REPORTING FULL DEPTH RECLAMATION COMPACTION									
CONTRACT NO.	PROJECT	CONTRACTOR	PRIME CONSULTANT							
PROJECT FROM	PROJECT TO	DES. CLASS	QA CONSULTANT							

¹COMPACTION - CONTROL STRIP METHOD

DATE TESTED	TEST SECTION	LIFT	LIFT	TEST SEC	TION LIMITS	CON	TROL	TES	ST SECTION	AVERAGE PERCENT	NO.		TEST SECTION
DATE TESTED	NO.	LIFT	THICKNESS	FROM	то	DRY DENSITY kg/m³	MOISTURE %	DRY DENSITY kg/m³	MOISTURE %	CONTROL DENSITY	TOTAL NO.	BELOW 95%	RE-TEST

² GRADATION and FRACTURES

DATE SAMPLED	LOT NO.	TEST	LIFT	LOT	LIMITS	PERCENT FRACTURE					S	IEVE ANALYSIS - %	% PASSING (μ	m)				
DATE SAWFEED	LOT NO.	NO.	LIFT	FROM	то	BY WEIGHT (2 FACES)	50 000	40 000	25 000	20 000	16 000	10 000	5 000	1250	630	315	160	80
	L	OT MEA	.N															
SPEC	IFICATIO	N LIMITS	S (Table 3.	2.3.1)	Upper Limit Lower Limit													

Test Section Frequency Outlined in ATT 58. Windrow Sampling and Frequency Outlined in ATT 38.	LOT TONNAGE	t	MAT 6 - 60	0 / 12
COMMENTS	TECHNOLOGISTS			
	PROJECT MANAGER			
	RECEIVED BY			
		*** Contractor's F	Representative	
	DATE RECEIVED		TIME	

^{***} Signature indicates receipt of data on the date and time indicated



DAILY REPORT - GRANULAR BASE COURSE USE ALSO FOR REPORTING FULL DEPTH RECLAMATION COMPACTION

CONTRACT NO.	777710	PROJECT	Hwy 99:99	CONTRACTOR	GOOD ROAD	PRIME CONSULTANT
	777710		пwy ээ.ээ		BUILDER	ABC CONSULTING
PROJECT FROM	km 0.000	PROJECT TO	km 7.000	DES. CLASS	2-20	QA CONSULTANT
	KIII 0.000		KIII 7.000		2-20	ABC CONSULTING

¹COMPACTION - CONTROL STRIP METHOD

DATE TESTED	TEST SECTION	LIFT	LIFT	TEST SEC	TION LIMITS	CON	TROL	TES	ST SECTION	AVERAGE PERCENT	NO. TES		TEST SECTION
DATE TESTED	NO.	LIFT	THICKNESS	FROM	то	DRY DENSITY kg/m³	MOISTURE %	DRY DENSITY kg/m³	MOISTURE %	CONTROL DENSITY	TOTAL NO.	BELOW 95%	RE-TEST
15-May-2006	1	1	200	11+000	11+400	2110	4.0	2080	3.8	98.6	10	no	

² GRADATION and FRACTURES

DATE SAMPLED	LOT NO.	TEST	LIFT	LOT	LIMITS	PERCENT FRACTURE					S	IEVE ANALYSIS - %	% PASSING (μ	m)				
DATE GAINT LED	LOT NO.	NO.	Lii i	FROM	то	BY WEIGHT (2 FACES)	50 000	40 000	25 000	20 000	16 000	10 000	5 000	1250	630	315	160	80
15-May-2006	1	1	1	11+000	11+400	61.1	100	100	100	99	93	69	52	40	27	20	8.3	4.6
15-May-2006	1	2	1	11+000	11+400	60.2	100	100	100	100	87	67	50	38	28	19	7.6	4.2
15-May-2006	1	3	1	11+000	11+400	66.8	100	100	100	100	88	68	47	34	29	18	8.1	4.2
	L	OT MEA	νN			62.7	100	100	100	100	89	68	50	37	28	19	8.0	4.3
SDEC	IEICATIC	NI LIMIT	S (Table 3.	2 3 1)	Upper Limit	60+				100	94	86	67	43	34	26	18	10
SFLO	II IOATIC	ZIN LIIVII I	o (Table 3.	2.3.1)	Lower Limit	00+				100	84	63	40	20	14	9	5	2

1.Test Section Fred	quency Outlined in ATT 58.				MAT 6 - 60 / 12
	g and Frequency Outlined in ATT 38.	LOT TONNAGE	1,000.00 t	<u></u>	
COMMENTS	A tolerance of 3% passing the topsize is allowed, provided that the next higher sieve has 100% passing.	TECHNOLOGISTS			
		PROJECT MANAGER			
		RECEIVED BY		*** Contractor's Representative	
				Communication of respiration management	
		DATE RECEIVED		TIME	

^{***} Signature indicates receipt of data on the date and time indicated



DAILY COMPACTION REPORT - Cold In-Place Recycling (CIR)

CONTRACT NO.	PROJECT NO.	CONTRACTOR	PRIME CONSULTANT
PROJECT FROM	PROJECT TO	DESIGN PROCTOR	QA CONSULTANT
		kg/m³	

С	IR'	1/1	2	

	CIR I	MIX					CIR PAV	EMENT			
DATE SAMPLED	LOT NO.	DENSITY kg/m³	MOISTURE CONTENT %	DATE SAMPLED	LOT NO.	LANE	STATION	OFFSET m	SLAB DENSITY kg/m³	SLAB MOISTURE %	COMPACTION %
		<u> </u>									
Lot Average											

COMMENTS:	Lot No.	Lane	From	То	Area (m²)	TECHNOLOGISTS:	
						PROJECT MANAGER:	
						RECEIVED BY:	
			TV	PE	AMOUNT		*** Contractors Representative
					%		
	BITUM STABI	INOUS LIZING					
	ADDI					DATE RECEIVED:	TIME:
	CEM						
	ADDI	ITIVE				*** Signature indicate	es receipt of data on the date and time indicated



DAILY COMPACTION REPORT - Cold In-Place Recycling (CIR)

CONTRACT NO.	100051	PROJECT NO.		CONTRACTOR		PRIME CONSULTANT
	123654		Hwy XX:xx			
PROJECT FROM		PROJECT TO		DESIGN PROCTOR		QA CONSULTANT
				2065	kg/m³	

CIR1/12

	CIR	МІХ					CIR PAVI	CIR PAVEMENT			
DATE SAMPLED	LOT NO.	MARSHALL DENSITY kg/m ³	MOISTURE CONTENT %	DATE SAMPLED	LOT NO.	LANE	STATION	OFFSET m	SLAB DENSITY kg/m³	SLAB MOISTURE %	COMPACTION %
18-Jun-2012	12	2105	4.8	29-Jun-2012	12	EBL	16+120	2.1 rt	2110	2.2	100.3
18-Jun-2012	12	2100	5.0	29-Jun-2012	12	EBL	16+905	3.0 rt	2101	1.9	99.9
18-Jun-2012	12	2106	4.1	29-Jun-2012	12	EBL	17+504	2.2 rt	2097	1.9	99.7
Lot Average		2104	4.6						2103	2.0	100.0

Lot No.	Lane	From	То	Area (m²)	TECHNOLOGISTS:	
12	EBL	15+910	17+605	6,272		
					PROJECT MANAGER:	
					_	
					RECEIVED BY:	
		TY	PE	AMOUNT		*** Contractors Representative
				%		
STABI	LIZING	CR	S-2	1.4	DATE DECEIVED:	TIME:
CEM	IENT	G	U	1.0		
	BITUM STABII ADDI		12 EBL 15+910 TY BITUMINOUS STABILIZING ADDITIVE CEMENT G	12 EBL 15+910 17+605 TYPE BITUMINOUS STABILIZING ADDITIVE CEMENT GIL	12 EBL 15+910 17+605 6,272	12



APPEAL INITIALIZATION FORM

M	ΔТ	6	- 92	Δ/	11
V 1 /	¬ ı	U '	- 5/2	$\overline{}$	

PRIME CONSULTANT:	CONTACT NAME:	PHONE No.:	Email:	
DATE SUBMITTED:	APPEAL TYPE:	APPEAL CONSULTANT:		
LOT NO.	APPEAL NO.:	PROJECT IDENTIFIER:		

APPEAL TYPES
Asphalt Content
ACP Gradation
ACP Density
GBC Gradation
GBC Fractures
L.A. Abrasion
Detrimental Matter
HIR MTD

DESIGN or VIRGIN	(if RAP) GRADATION	DESIGN or TARGET AGGREGATE PROPORTIONS
SIEVE SIZE (µm)	PERCENT PASSING (%)	COARSE AGGREGATE (12.5mm)
25 000		NATURAL FINES
20 000		NATURAL FINES
16 000		MANUFACTURED FINES
12 500		WANDFACTORED FINES
10 000		DI FAID CAND
5 000		BLEND SAND
1250		COARSE AGGREGATE
630		(20mm)
315		COARSE AGGREGATE
160		(25mm)
80		OTHER
		OTHER
ASPHALT CEMENT		% PASSING 5000µm SIEVE IN COARSE

SHADED AREAS - COMPLETED BY PRIME CONSULTANT - HEADER INFORMATION COMPLETED FOR ALL APPEALS

CORRECTION FACTOR INFORMATION NEEDED FOR ASPHALT CONTENT APPEALS ONLY

COPY SUBMITTED WITH SAMPLES AND SENT TO AN APROVED APPEAL CONSULTANT (AS SPECIFIED IN ATT-68)

For procedures and test methods used for the appeal of acceptance test results see ATT-68 APPEAL TESTING

SEND COMPLETED COPIES OF THIS FORM TO: 1. THE SURFACE ENGINEERING AND AGGREGATES SECTION (email to trans.constructqa@gov.ab.ca)

2. PROJECT SPONSOR

REMARKS: The Project Identifier in the header is useful in the case where more than one appeal is sent in by the same consultant for different jobs.

For asphalt content appeals, the Contractor supplies a minimum of 15 kg of representative aggregate for each split, and a 4ℓ sample of project asphalt cement for the appealed Lot. The materials and the design gradation are shipped to the Appeal Testing Consultant.

For core asphalt content or gradation appeals, sufficient cores are taken at the same location to provide the Appeal Testing Lab with a minimum 2000 g extraction sample.

NOTE: Contract specific information is **NOT** to be included on this form.



APPEAL INITIALIZATION FORM

MAT 6 - 92A/11

PRIME CONSULTANT:		CONTACT NAME:		PHONE No.:		Email:	
DATE SUBMITTED:	1-Jan-2013	APPEAL TYPE:		APPEAL CONSULTANT:			
LOT NO.		APPEAL NO.:		PROJECT IDENTIFIER:		X	ХХ

APPEAL TYPES
Asphalt Content
ACP Gradation
ACP Density
GBC Gradation
GBC Fractures
L.A. Abrasion
Detrimental Matter
HIR MTD

DESIGN or VIRGIN	(if RAP) GRADATION	DESIGN or TARGET AGGREGATE PRO	PORTIONS %
SIEVE SIZE (µm)	PERCENT PASSING (%)	COARSE AGGREGATE (12.5mm)	75
25 000		NATURAL FINES	10
20 000		INATORAL FINES	10
16 000	100	MANUFACTURED FINES	
12 500	100	WANDI ACTORED I INES	
10 000	97	BLEND SAND	15
5 000	71	BLEIND SAND	13
1250	43	COARSE AGGREGATE	
630	32	(20mm)	
315	19	COARSE AGGREGATE	
160	11.6	(25mm)	
80	7.5	OTHER	
		OTHER	
ASPHALT CEMENT GRADE AND SUPPLIER	PG 52-34 HUSKY	% PASSING 5000μm SIEVE IN COARSE	45

SHADED AREAS - COMPLETED BY PRIME CONSULTANT - HEADER INFORMATION COMPLETED FOR ALL APPEALS

CORRECTION FACTOR INFORMATION NEEDED FOR ASPHALT CONTENT APPEALS ONLY

COPY SUBMITTED WITH SAMPLES AND SENT TO AN APROVED APPEAL CONSULTANT (AS SPECIFIED IN ATT-68)

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For core asphalt content or gradation appeals, sufficient cores are taken at the same location to provide the Appeal Testing Lab with a minimum 2000 g extraction sample.

NOTE: Contract specific information is **NOT** to be included on this form.



APPEAL TEST RESULTS

APPEAL TYPE & NO:

	MAT 6 - 92 / 11							
PROJECT:			CONTRACT:		DATE LAID:		DATE CORED:	
FROM:			LOT NO.:		CONTRACTOR:		PRIME CONSULTANT	
TO:			PROJECT MANAGER:				APPEAL CONSULTANT	
							_	
SEGMENT OR SA	MPLE NUMBER	1	2	3	4	5		

SEGMENT OR SAMPLE NUMBER	1	2	3	4	5
STATION OF SEGMENT TEST SITE					
LOCATION FROM CENTERLINE					

DENSITY							
A LOT AVERAGE MARSHALL D					B TOTAL	AVERAGE	
CORE DRY DENSITY (kg/m³)							

ASPHALT CONTENT								
EXTRACTION CORRECTION					C TOTAL	AVERAGE		
CORRECTED EXTRACTION ASPHALT CONTENT (%)								

GRADATION OF EX	GRADATION OF EXTRACTED CORES or GRANULAR BASE COURSE SAMPLES										
SIEVE SIZE (µm)		PER	AVERAGE	JOB MIX FORMULA							
40 000											
25 000											
20 000											
16 000											
12 500											
10 000											
5 000											
1 250											
630											
315											
160											
80											
% FRACTURES - GBC											

LOT ASPHALT CONTENT or DENSITY CALCULATIONS									
the single high and single low test results from the original Lot will be rejected	E	F							
THREE REMAINING DENSITY TESTS									
THREE REMAINING LOT ASPHALT CONTENT TESTS									
G ¹ . FINAL LOT DENSITY RESULTS	(D + E + F + B) / 8	kg /m³							
G ² . FINAL LOT ASPHALT CONTENT RESULTS	(D + E + F + C) / 8	%							
H. LOT TARGET ASPHALT CONTENT		%							
I. DEVIATION FROM TARGET ASPHALT CONTENT	H - G	%							
J. FINAL LOT % COMPACTION	(100 G / A)	%							
K. LOT UNIT PRICE ADJUSTMENT FOR DENSITY or ASPHALT CONTENT	(TABLE 3.50 A OR B)	\$/t							
L. LOT TONNES OF MIX		t							
M. APPEAL LOT ADJUSTMENT	KxL	\$							

SHADED AREAS - COMPLETED BY THE PRIME CO	SHADED AREAS - COMPLETED BY THE PRIME CONSULTANT AFTER RECEIVING THE RESULTS FROM THE APPEAL CONSULTANT										
SEND COMPLETED COPIES OF THIS FORM TO:	THE SURFACE ENGINEERING AND AGGREGATES SECTION	(email to trans.constru	ictqa@gov.ab.ca)	2. PROJECT SPONSOR							
REMARKS:											
				MAT 6 - 92 /11							
PROJECT MANAGER	CONTRACTOR		AF	PPEAL CONSULTANT							



APPEAL TEST RESULTS

APPEAL TYPE & NO: ACP Density No. 2

MAT 6 - 92 / 11

PROJECT:	HWY XX:xx	CONTRACT:	XXXXXX	DATE LAID:	1-Jan-2013	DATE CORED:	5-Jan-2013
FROM:		LOT NO.:		CONTRACTOR:		PRIME CONSULTANT	
TO:		PROJECT	MANAGER:			APPEAL CONSULTANT	

SEGMENT OR SAMPLE NUMBER	1	2	3	4	5
STATION OF SEGMENT TEST SITE	12+100	12+650	13+002	13+122	13+450
LOCATION FROM CENTERLINE	2.0 m Rt	2.3 m Rt	0.5 m Rt	4.1 m Rt	3.1 m Rt

	DENSITY								
A LOT AVERAGE MARSHALL DI	RY DENSITY	2383	B TOTAL AVERAGE						
CORE DRY DENSITY (kg/m³)	2282	2241	2256	2291	2289	11359	2272		

ASPHALT CONTENT								
EXTRACTION CORRECTION FA	ACTOR					C TOTAL	AVERAGE	
CORRECTED EXTRACTION ASPHALT CONTENT (%)								

GRADATION OF EX	GRADATION OF EXTRACTED CORES or GRANULAR BASE COURSE SAMPLES						
SIEVE SIZE (μm)		PER	CENT PASSING	6 (%)		AVERAGE	JOB MIX FORMULA
40 000					1		
25 000							
20 000							
16 000							
12 500							
10 000							
5 000							
1 250							
630							
315							
160							
80							
% FRACTURES - GBC							_

LOT ASPHALT CONTENT or DENSITY CALCULATIONS							
the single high and single low test results from the original Lot will be rejected	D	E	F				
THREE REMAINING DENSITY TESTS	2280	2291	2333				
G ¹ . FINAL LOT DENSITY RESULTS	(D + E + F + B) / 8	kg /m³	2283				
G ² . FINAL LOT ASPHALT CONTENT RESULTS	(D + E + F + C) / 8	%					
H. LOT TARGET ASPHALT CONTENT		%					
I. DEVIATION FROM TARGET ASPHALT CONTENT	H-G	%					
J. FINAL LOT % COMPACTION	(100 G / A)	%	95.8				
K. LOT UNIT PRICE ADJUSTMENT FOR DENSITY or ASPHALT CONTENT	(TABLE 3.50 A OR B)	\$/t	(\$2.40)				
L. LOT TONNES OF MIX		t	3140.2				
M. APPEAL LOT ADJUSTMENT	KxL	\$	(\$7,536.48)				

SHADED AREAS - COMPLETED BY THE PRIME CONSULTANT AFTER RECEIVING THE RESULTS FROM THE APPEAL CONSULTANT							
SEND COMPLETED COPIES OF THIS FORM TO:		THE SURFACE ENGINEERING AND AGGREGATES SECTION	(email to trans.cons	tructqa@gov.ab.ca)	2. PROJECT SPONSOR		
REMARKS:							
					MAT 6 - 92 /11		
			_				
PROJECT MAI	NAGER	CONTRACTOR	-	AF	PPEAL CONSULTANT		



APPEAL TEST RESULTS

APPEAL TYPE & NO: Asphalt Content No. 1

MAT 6 - 92 / 11

PROJECT:	HWY	XX:xx	CONTRACT:	XXXXXX	DATE LAID:	1-Jan-2013	DATE CORED:	5-Jan-2013
FROM:			LOT NO.:		CONTRACTOR:		PRIME CONSULTANT	
TO:			PROJECT MANAGER:				APPEAL CONSULTANT	

SEGMENT OR SAMPLE NUMBER	1	2	3	4	5
STATION OF SEGMENT TEST SITE	12+100	12+650	13+002	13+122	13+450
LOCATION FROM CENTERLINE	2.0 m Rt	2.3 m Rt	0.5 m Rt	4.1 m Rt	3.1 m Rt

DENSITY							
A LOT AVERAGE MARSHALL DI	RY DENSITY					B TOTAL	AVERAGE
CORE DRY DENSITY (kg/m³)							

ASPHALT CONTENT							
EXTRACTION CORRECTION	FACTOR	0.02%				C TOTAL	AVERAGE
CORRECTED EXTRACTION ASPHALT CONTENT (%)	5.71	5.58	5.42	5.52	5.33	27.56	5.51

GRADATION OF EX	GRADATION OF EXTRACTED CORES or GRANULAR BASE COURSE SAMPLES						
SIEVE SIZE (µm)		PER	CENT PASSING	G (%)		AVERAGE	JOB MIX FORMULA
40 000					1		100
25 000							100
20 000							100
16 000	100	100	100	100	100	100	98
12 500	90	89	90	91	90	90	88
10 000	79	81	80	79	80	80	80
5 000	65	65	60	63	62	63	61
1 250	39	37	35	36	32	36	37
630	27	29	28	27	27	28	28
315	17	18	17	18	17	17	17
160	9.9	10.7	10.2	10.1	10.2	10.2	9.8
80	6.4	6.8	6.5	6.4	6.4	6.5	6.4
% FRACTURES - GBC	62	61	60	60	62	61	

LOT ASPHALT CONTENT or DENSITY CALCULATIONS							
the single high and single low test results from the original Lot will be rejected	D	E	F				
THREE REMAINING LOT ASPHALT CONTENT TESTS	4.98	5.35	5.37				
G ¹ . FINAL LOT DENSITY RESULTS	(D + E + F + B) / 8	kg /m³					
G ² . FINAL LOT ASPHALT CONTENT RESULTS	(D + E + F + C) / 8	%	5.41				
H. LOT TARGET ASPHALT CONTENT		%	5.80				
I. DEVIATION FROM TARGET ASPHALT CONTENT	H-G	%	0.39				
J. FINAL LOT % COMPACTION	(100 G / A)	%					
K. LOT UNIT PRICE ADJUSTMENT FOR DENSITY or ASPHALT CONTENT	(TABLE 3.50 A OR B)	\$/t	(\$2.00)				
L. LOT TONNES OF MIX		t	3140.2				
M. APPEAL LOT ADJUSTMENT	KxL	\$	(\$6,280.40)				

SHADED AREAS - COMPLETED BY THE PRIME CONSULTANT AFTER RECEIVING THE RESULTS FROM THE APPEAL CONSULTANT							
SEND COMPLETED COPIES OF THIS FORM TO:	THE SURFACE ENGINEERING AND AGGREGATES SECTION (email to to to to to to to to to to to to to	trans.constructqa@gov.ab.ca) 2. PROJECT SPONSOR					
	tries to capture all appeals for illustration; asphalt content, grada s, all tests from the old Lot will be retained and averaged with the						
PROJECT MANAGER	CONTRACTOR	MAT 6 - 92 /11 APPEAL CONSULTANT					

1	,			SEGREGATION WORKSHEET SHEET of									
X	bert		CONTRA	CT NO.	PROJECT N	NO.	CONTRACT	OR		SHEET of			
	Transpor	tation	PF	ROJECT	FROM		PROJECT	то	INSP	ECTIONS BY THE CONSULTANT			
MAT 6 - 95/12													
DATE INSPECTED	STATION	LOCATION	LANE	MAT	SEG SLIGHT	REGATED A	REAS SEVERE	Center of Paver Length (m)	OBVIOUS DEFECT	COMMENTS			
		1	I		II	1		II.	ı	Л			
OBVIOUS D	EFECT COD	ES			INSPE	CTED BY:							
SG Segrega	ation(<0.1 m ²) RM Roll				EIVED BY:							
EA Excess SL Sample MJ Imp. Ma CR Cracking CH Imp. Re	Location atching Joint	TM Tire TR Roll HC Haii AP App S OH Oth	er Tears rline Crac roach Se	:king :g.	DATE F	RECEIVED		*** (Contractor's TIME	Representative			

CP Centre-of-Paver Streaks *** Signature indicates receipt of data on the date and time indicated less than 1 m in length



MAT 6 - 95/12

SEGREGATION WORKSHEET

						SHEET_ <u>1</u> of2	
	CONTRACT NO.	PROJECT N	10.	CONTRACTOR		CONSULTANT	
	999908	Hw 9	9:99	Good Road Builde	r	Better Rater	
rtation	PROJECT F	ROM		PROJECT TO	INSP	ECTIONS BY THE CONSULTANT	
	Lido Cre	ek		Pedicot Junction		1. During Construction	

DATE	OTATION	LOCATION	LANE	NAAT	SEG	REGATED A	REAS	Center of Paver	OBVIOUS	COMMENTO
INSPECTED	STATION	LOCATION	LANE	MAT	SLIGHT	MODERATE	SEVERE	Length (m)	DEFECT	COMMENTS
22-Jul-2008	3+215	2.9m Rt	W	R	✓					
	3+321	3.8m Rt	W	R	✓					
	3+330	2.0m Rt	W	R		✓		216		Requires slurry or hot mix patch
	3+340	3.0m Rt	W	R		✓				Requires slurry or hot mix patch
	3+380	2.7m Rt	W	R		✓				Requires slurry or hot mix patch
	3+720	1.7m Rt	W	R	✓					
	4+123	2.2m Rt	W	R		✓				Requires slurry or hot mix patch
	4+250	cl							MJ	From 4+250 to 4+390
	4+288	2.3m Rt	W	R	✓					
	4+430	3.0m Rt	W	R		✓				Requires slurry or hot mix patch
	4+600	2.9m Rt	W	R		✓				Requires slurry or hot mix patch
	4+621	1.5m Rt	W	R	/					
	4+680	2.9m Rt	W	R		✓				Requires slurry or hot mix patch
	4+721	2.5m Rt	W	R	✓					
	5+181	3.9m Rt	W	R					SL	Requires slurry or hot mix patch
	5+201	3.3m Rt	W	R	✓					
	5+280	2.85m Rt	W	R				592		From 5+280 to 5+872 (Rated as slight, no repair req'd)
	5+320	3.6m Rt	W	R	✓					
	5+402	3.1m Rt	W	R	✓					
	5+872	2.85m Rt	W	R				40		From 5+872 to 5+912 (Rated as moderate, slurry or hot mix patch req'd)
	6+057	1.8m Rt	W	R	✓					
	6+100	2.85m Rt	W	R				540		From 6+100 to 6+640 (Rated as slight, no repair req'd)
	6+177	0.6m Rt	W	R					СН	Core holes need topping up
	6+680			_			_		AP	Mod. Seg on Approach (not subject to adjustments)

<u>OB</u>	VIOUS DEFECT CODES	<u>3</u>	INSPECTED BY:	Harry (Cotter, Oranth	el Crusher	
SG	Segregation(<0.1 m ²)	RM Roller Mark	RECEIVED BY:		Bob Roadbulid	der	
EΑ	Excess Asphalt	TM Tire Mark		*** (Contractor's Repres	sentative	
SL	Sample Location	TR Roller Tears			·		
MJ	Imp. Matching Joint	HC Hairline Cracking	DATE RECEIVED	6-Aug-2008	TIME	6:00 PM	
CR	Cracking	AP Approach Seg.	-		·		
СН	Imp. Rep. Core Holes	OH Other					
CD	Centre-of-Payer Streaks	•	,	*** Cianatura indiaataa raaa	int of data on the d	ata and time indicated	

CP Centre-of-Paver Streaks

*** Signature indicates receipt of data on the date and time indicated less than 1 m in length



SEGREGATION SUMMARY REPORT

CONTRACT NO. PROJECT NO. CONTRACTOR CONSULTANT

PROJECT FROM PROJECT TO PROJECT LANE.KMS

MAT 6 - 95s/12 LANE.KM TOTALS NUMBER SEGREGATION LIMITS SEGREGATED AREAS Length of Centre of Paver Streaks ADJUSTMENTS LENGTH OBVIOUS MAT LANE (+/-\$) FROM SLIGHT MODERATE SEVERE DEFECTS Total(s)

COMMENTS:		
	CERTIFIED CORRECT:	POSITION:

These values used in calc. Pen Bonus Lane kilometres subject to \$500 bonus 0.000 Lane kms Lane kilometres subject to \$1000 bonus 0.000 Lane kms TOTAL \$500 & \$1000 BONUSES \$0.00 (\$) Total Penalty for Segregation and Centre-of-Paver Streaks \$0.00 (-\$) Total Length of Centre-of-Paver Streaks (m) metres TOTAL SEGREGATION ADJUSTMENT \$0.00 (+ or - \$)



MAT 6 - 95s/12

SEGREGATION SUMMARY REPORT

MAT 6 - 95s/12										68.20
	LANE.KN	Л		1		T		SEGREGATION		
	MITS	LANE	MAT	LENGTH		EGREGATED AREA		Length of Centre of Paver Streaks	OBVIOUS	ADJUSTMENTS
FROM	ТО			(km)	SLIGHT	MODERATE	SEVERE	(m)	DEFECTS	(+ / - \$)
3.200	4.000	N	R	0.800	3	3			0	(\$1,600.00)
4.000	5.000	N	R	1.000	3	4			1	(\$2,000.00)
5.000	6.000	N	R	1.000	3			632	0	(\$1,048.00)
6.000	7.000	N	R	1.000	1	1		640	2	(\$1,460.00)
7.000	8.000	N	R	1.000	1	2			0	(\$1,000.00)
8.000	9.000	N	R	1.000	2				3	\$500.00
9.000	10.000	N	R	1.000		1		20	3	(\$530.00)
10.000	11.000	N	R	1.000	1	1	1		3	(\$1,000.00)
11.000	12.000	N	R	1.000		5			3	(\$2,000.00)
12.000	13.000	N	R	1.000	3				3	(\$100.00)
13.000	14.000	N	R	1.000	4	3			3	(\$1,700.00)
14.000	15.000	N	R	1.000	3				3	(\$100.00)
15.000	16.000	N	R	1.000					3	\$1,000.00
16.000	17.000	N	R	1.000	1				3	\$500.00
17.000	18.000	N	R	1.000		1			3	(\$500.00)
18.000	19.000	N	R	1.000		1			3	(\$500.00)
19.000	20.000	N	R	1.000	1				3	\$500.00
20.000	21.000	N	R	1.000	2				3	\$500.00
21.000	22.000	N	R	1.000	3				3	(\$100.00)
22.000	23.000	N	R	1.000		1			3	(\$500.00)
23.000	24.000	N	R	1.000					3	\$1,000.00
24.000	25.000	N	R	1.000					3	\$1,000.00
25.000	26.000	N	R	1.000	3				3	(\$100.00)
26.000	27.000	N	R	1.000		1			3	(\$500.00)
27.000	28.000	N	R	1.000		1			3	(\$500.00)
28.000	29.000	N	R	1.000					3	\$1,000.00
29.000	30.000	N	R	1.000					3	\$1,000.00
30.000	31.000	N	R	1.000	3				3	(\$100.00)
31.000	32.000	N	R	1.000					3	\$1,000.00
32.000	33.000	N	R	1.000	2				3	\$500.00
33.000	34.300	N	R	1.300	4				3	(\$130.00)
			Total(s)	31.100	43	25	1	1292	81	(\$6,968.00)

COMMENTS:	This summary is for the Northbound lane, right mat.	
	CERTIFIED CORRECT:	POSITION:

Lane kilometres subject to \$500 bonus
Lane kilometres subject to \$1000 bonus
TOTAL \$500 & \$1000 BONUSES
Total Penalty for Segregation and Centre-of-Paver Streaks

Total Length of Centre-of-Paver Streaks (m)

TOTAL SEGREGATION ADJUSTMENT

These values used in calc. Pen Bonus

5.000 Lane kms
6.000 Lane kms
\$8,500.00 (\$)
(\$15,468.00) (-\$)
1292 metres
(\$6,968.00) (+ or - \$)

Albertan								PRO	FILO	GRAPH	INDEX R	EPORT			SHEE	Tof
	4 (L	u n					PRO	JECT					CC	NTRACT	NO.	
	Tra	anspo	rtatio	n			FR	OM					TYPE OI	F CONST	RUCTION	
MAT 6 -							Т	0				_		LIFT		
WAT 6-	13/12				1	YPE :										
	PRO	OFILOGR <i>i</i>	APH		OPERA	TOR:					PROFILO	GRAPH CONSULT	ANT			
	DA	ATE TEST	ED		TOTAL kn				% IN BONUS	NUMBER OF		CONTRO	1	SECTION (kilometers)		
	dd/mm/year TES						SECTION	5 6	SUNUS	SECTIONS	FROM		TO)		
							MITO	001	INITO	PROFILE	DDI ACC	COMENT	DII	MP and/o	- DID	DI IMP/DID
SECT.	RE-TEST	TYPE of CONSTR.	LANE	MAT	FROM	OT LII	TO		JNTS	INDEX	BONUS	PENALTY	Bump	SIZE	Location	BUMP/DIP ASSESSMENT
NO.		(C1, C2, C3)			0+000		0+000	1.IWP	OWP	mm / 0.1 km	\$	(\$)	or Dip	mm	0+000	PENALTY(\$)
1																
2																
3																
4																
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9																
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COM	MENTS:									TOTAL(S)	\$ -	\$ -			TOTAL(S)	\$ -
												TOTAL NUMBE	R OF RE	JECTS		
	F	PRI ASSE	SSMEN	Т				BUMP /	DIP AS	SESSMENT		Multi-Lift - #	of Sublots	s (PRI >	10mm)	
# OF S	UBLOTS	WITH 0	mm PRI			Mult	ti-Lift (BU	MPS & C	DIPS):			Single-Lift - #	of Sublo	ts (PRI >	15mm)	
BONUS	SASSES	SMENT F	OR PRI									Curb & Gutter	# of Sub	lots (PRI	> 22mm)	
BONUS ASSESSMENT FOR PRI						Single-Lift (BUMPS & DIPS): TOTAL BUMP/DIP PENALTIES					Curb & Gutter - # of Sublots (PRI > 22mm) DECREASED ASSESSMENT FOR PRI					

Revised December 2013 Appendix B.19

TOTAL (Bonus Assessment for PRI + Total Bump/Dip Penalties + Decreased Assessment for PRI)

Albertan

MAT 6 - 73/12

PROFILOGRAPH INDEX REPORT

Hwy XX:xx

CONTRACT NO.

TYPE OF CONSTRUCTION

XXXXXX Multi-Lift

SHEET 1 of 1

Transportation

FROM
TO

PROJECT

LIFT Final

	PRC	DFILOGRA	NPH		OPERATO	R: Very Go	od			PROFILOGRAPH CONSULTANT				IRIS ENGINEERING					
	DA	TE TESTE	-D		TOTAL kms	BONUS		% IN	NUMBER OF				CONTRO	L SECTION	ON (kilor	meters)			
					TESTED	SECTION		BONUS SECTIONS			FROM		7+200	ТО		10+000			
		dd/mm/year 1-Oct-2013	3		16.10	3		11%	28				30+000				30+00	30+000	
		TYPE of			SUBLOT	LIMITS	COL	JNTS	PROFILE		PRI ASS	ESSN	/ENT	BU	MP and	or DIP	В	UMP/DIP	
SECT. NO.	RE-TEST	CONSTR. (C1, C2, C3)	LANE	MAT	FROM	ТО	1.IWP	OWP	INDEX		BONUS \$	F	PENALTY	Bump or Dip	SIZE	Location		SESSMEN NALTY(\$)	
			10/		0+000 10+000	0+000		0.00	mm / 0.1 km 0	•			(\$)	ог ыр	mm	0+000	FL	INALIT(\$	
1		C1	W	L	-	9+900				\$	30.00	•							
2		C1	W	L	9+900	9+800		5.00	5			\$	-						
3		C1	W	L	9+800	9+700		10.00	10			\$	- (40.00)						
4		C1	W	L	9+700	9+600		11.00	11			\$	(40.00)						
5		C1	W	L	9+600	9+500		12.00	12			\$	(70.00)						
6		C1	W	L	9+500	9+400		13.00	13			\$	(100.00)				_		
7		C1	W	L	9+400	9+300		14.00	14			\$	(130.00)	Bump	9	9+330	\$	(300.0	
8		C1	W	L	9+300	9+200		15.00	15			\$	(170.00)						
9		C1	W	L	9+200	9+100		16.00	16			\$	(200.00)						
10		C1	W	L	9+100	9+000		17.00	17	L,		\$	(230.00)						
11		C2	Е	R	9+000	8+900		0.00	0	\$	30.00								
12		C2	Е	R	8+900	8+800		10.00	10			\$							
13		C2	Е	R	8+800	8+700		15.00	15			\$	•						
14		C2	Е	R	8+700	8+600		16.00	16			\$	(40.00)						
15		C2	Е	R	8+600	8+500		18.00	18			\$	(120.00)						
16		C2	Е	R	8+500	8+400		20.00	20			\$	(200.00)	Dip	9	8+553	\$	(100.	
17		C2	E	R	8+400	8+300		21.00	21			\$	(240.00)						
18		C2	Е	R	8+300	8+200		22.00	22			\$	(280.00)						
19		C2	Е	R	8+200	8+100		23.00	23			\$	(320.00)	Bump	12	8+123	\$	(100.0	
20		C2	Е	R	8+100	8+000		24.00	24			F	REJECT						
21		C3	N	RS	8+000	7+900		0.00	0	\$	30.00								
22		C3	N	RS	7+900	7+800		10.00	10			\$	-						
23		C3	N	RS	7+800	7+700		20.00	20			\$	-						
24		C3	N	RS	7+700	7+600		23.00	23			\$	(10.00)						
25		C3	N	RS	7+600	7+500		25.00	25			\$	(70.00)						
26		C3	N	RS	7+500	7+400		27.00	27			\$	(130.00)						
27		C3	N	RS	7+400	7+300		29.00	29			\$	(190.00)		11	7+350	\$	(100.	
28		C3	N	RS	7+300	7+200		31.00	31			ı	REJECT						
29																			
30																			

PRI ASSESSMENT		BUMP / DIP ASS	SESSMENT		Multi-Lift - # of Sublots (PRI > 10mm)	6
# OF SUBLOTS WITH 0 mm PRI	3	Multi-Lift (BUMPS & DIPS):	1	(\$300.00)	Single-Lift - # of Sublots (PRI > 15mm)	6
BONUS ASSESSMENT FOR PRI	BONUS ASSESSMENT FOR PRI \$90.00		Single-Lift (BUMPS & DIPS): 3 (\$300.00		Curb & Gutter - # of Sublots (PRI > 22mm)	4
		TOTAL BUMP/DIP PENA	LTIES	(\$600.00)	DECREASED ASSESSMENT FOR PRI	(\$2,540.00)
		TOTAL (Bonus Assessment f	or PRI + Total	Bump/Dip Pen	alties + Decreased Assessment for PRI)	(\$3.050.00)

TOTAL NUMBER OF REJECTS

2



Excel Program for IRI & ALR Reporting

FAMILIARIZE YOURSELF WITH THE FOLLOWING INSTRUCTIONS PRIOR TO USING THE PROGRAM.

1. Macro and ProVAL

This spreadsheet has a macro to calculate the bonus/penalty adjustments for Ride Quality and ALR.

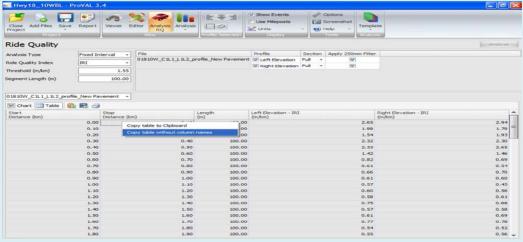
This program is designed to use ProVAL 3.4 version data. If you're using a 3.3 version or lower, it is suggested you update your ProVAL.

It is recommended that under File - Properties you select the Read Only option.

2. Steps for Ride Quality Reporting

The following provides guidance on how to produce an IRI report.

a) while doing ride quality analysis in ProVAL, as in the screen shot shown below, copy IRI table to the clipboard without column names.

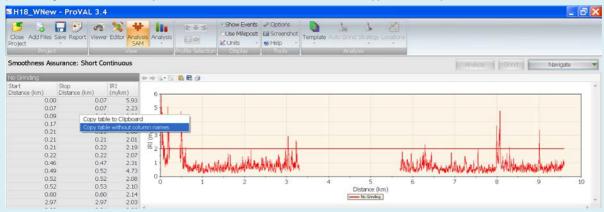


- b) Click cell B11 on worksheet "IRI", and paste data in the clipboard.
- c) Make sure all fields under Excluded Areas(column H) and Construction type (column I) are filled out.
- d) Complete report header information (contract No. etc...). Add comments if needed.
- e) click "Complete and Format Form" button located near the top right corner of the form. Wait for the analysis to complete.
- f) Check form and make sure the information entered is correct and check calculation if you wish.
- g) If for any reason you need to revise information under H "Excluded Area" or I "Type of Construction" you may do so and hit refresh to redo the analysis. if an sublot encompasses two construction types, select the construction type with higher number (e.g. both SI and SII types are in one sublot, chose SII for that sublot).
- h) If you would like to preview the print out of the form, click "Print Preview" button.
- i) If you're only doing IRI reporting, you can exit now and Excel will remind you to save (since this template is read-only).

3. Steps for Areas of Localized Roughness Reporting

The following provides instructions on how to produce ALR report.

a) while doing Smooth Assurance analysis in ProVal 3.4,as in the screen shot shown below, copy table to the clipboard without column names.



- b) Click cell A10 on the ALR worksheet, and paste data in there from the clipboard.
- c) Make sure all fields under column E,F,G and the report header are completed
- d) Check report header information (contract No. etc...). Add comments if needed.
- e) Check form and make sure the information entered is correct and check calculation if you wish.
- f) click "Format and Print Preview" button locates near the top right corner of the form to see a print preview.
- h) This template is read-only. YOU MUST SAVE YOUR WORK AS A SEPARATE FILE PRIOR TO EXIT. You'll be prompted when closing the excel workbook.
- i) You can exit now and Excel will remind you to save (since this template is read-only).

4. Report Submissions

On day of testing submit the unfiltered profile data in .erd or .ppf format. Also submit to the Consultant paper reports for Ride Quality and ALR (short continuous analysis) that are generated by either ProVAL or the software associated with the inertial profiler.

After remedial work, if required, retest and re-submit the profile data and smoothness reports.

Within five days of testing submit the payment adjustment spreadsheet to the Consultant in .xlsx and .pdf formats and paper copies for Ride Quality and ALR as generated by ProVAL (if not already submitted earlier).

The Consultant is to review the spreadsheets for accuracy and is to forward the electronic profile data and EXCEL spreadsheets (.xlsx format) to Technical Standards Branch - trans.constructqa@gov.ab.ca. The spreadsheet (.pdf) is also to be forwarded to the Project Sponsor or Administrator. Note that for interim saves, the spreadsheet can be saved in ".xlsm" format in order to retain the "payment adjustment" Macro functionality.

5. Reporting Problems

This Excel is tested under Windows XP operating system and Microsoft Excel 2010 environment. This program may not function properly on other systems. To report any problem with the template, contact the Construction Standards Specialist at jim.gavin@gov.ab.ca.

Disclaimer: Alberta Transportation does not warrant the functions contained in this Template will meet your requirements or that the operation of the program will be uninterrupted or error-free.

It is the user's sole responsibility to check the correctness and accuracy of the data and contents contained in the report.

In no event will Alberta Transportation or its staff be liable for any loss, expense, damage, of any type or nature arising out of the use of, or liability to use this excel program, including, but not limited to any lost profit, lost of productivity or any other incidental or consequential damage.

Revised on April, 2014

Naming Convention

The following naming rules apply to this EXCEL file and all other files (Erd, Ppf...) submitted to AT.

Report files shall be named in the following standardized format:

CN(_RT)_HwyN_CS1(_CS2)_Lane_TTN

- > CN: contract number for the project as shown on the cover page of the contract document. It shall contain only numbers and no slash;
- > RT: roadway type in abbreviation, use UAR for Urban Approach Roads, PAR for Park Access Roads. The preceding underscore and RT shall be omitted and deleted when testing a Highway.
- ➤ HwyN: highway number on which roughness test was performed. It shall contain a three-digit number (with leading zeros) followed by a letter if required;
- > CS1: control section number where roughness test started, in two digits, include leading zero;
- ➤ CS2: control section number where roughness test ended, in two digits, include leading zero. If IP roughness test starts and ends in the same control section, the CS2 and preceding underscore shall be omitted and deleted:
- ➤ Lane: location details for the lane tested, which indicates right/left location and sequence number in relation to the yellow line.

Left/right is defined as left/right side with respect to the yellow line as viewed up chainage (increasing chainage). The lane immediately left/right to the yellow line is the first lane and for lanes further from the yellowline, the sequence number increases accordingly.

> TTN: roughness test type and test number. Omit this if it's initial test, "R" for re-test and "V" for verification test. Succeed test type abbreviation with a one-digit number to indicate test number of occurrence. Use 1 for 1st time, and increase number accordingly for subsequent tests.

The following provides typical examples of naming ERD files:

1. A verification test was performed on Hwy 18 from Control Section 10 to 12 eastbound driving lane for the construction of Contract 131088. The stationing number increases eastbound. The roughness data from IP shall be named as follows:

131088_018_CS10_CS12_R1_V1.xlsx or erd or ppf

2. A roughness test was performed by the Contractor on Hwy 16 from Control Section 26 to 24 westbound passing lane for the construction of Contract 131099. The stationing number increases eastbound. The roughness data from IP shall be named as follows:

131099 016 CS26 CS24 L1.xlsx or erd or ppf



Contract No:	Type of Test:	
Hwy Number:	Contractor:	
Control Section:	IP Operator:	
Lane:	Test Date: (mm/dd/yyyy)	
Direction:	Comments:	

Ride Quality Bonus/Penalty Summary

Appendix B20		Quanty	y Bonus/	Penalty S	ummary		Excluded Area?	Type of Cons.	Sublot Payment
Sublot	Station	(km)	Length	IRI (m	n/km)	MIRI	Yes or No?	SI,SII,or SIII	Assessment
Number	Start	End	(m)	Left	Right	(m/km)		- 7- 7	(\$)
							no		
							no		
							no		
							no		
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Areas of Localized Roughness Report



Contract No:	0	Type of Test:	
Hwy Number	0	Contractor:	0
Control Section	0	IP Operator:	0
		Test Date:	
Lane:	0	(mm/dd/yyyy)	1/0/1900
Direction:	0	Comments:	

Appendix B20.b

Areas of Localized Roughness Summary							
Station (km)		IRI (m/km)	Length	Excluded Area?	Type of Cons.	Penalty	
Start	End	Right	(m)	Yes or No	SI,SII,or SIII	Assessment \$	
paste here				no			



Contract No:	12378	Type of Test:	Acceptance
Hwy Number:	998	Contractor:	XYZ
Control Section:	10	IP Operator:	John Turner
Lane:		Test Date:	
Lane.	R1	(mm/dd/yyyy)	6/6/2014
Direction:	NB		

Ride Quality Bonus/Penalty Summary

Appendix B20.a						Excluded Area?	Type of Cons.	Sublot Payment	
Sublot	Station	(km)	Length IRI (m/km)		MIRI	Yes or No	SI,SII,or SIII	Assessment	
Number	Start	End	(m)	Left	Right	(m/km)			(\$)
1	0.000	0.100	100	0.61	0.64	0.63	no	SI	30.00
2	0.100	0.200	100	0.52	0.48	0.50	no	SI	50.00
3	0.200	0.300	100	0.53	0.59	0.56	no	SI	30.00
4	0.300	0.400	100	0.58	0.57	0.57	no	SI	30.00
5	0.400	0.500	100	1.59	1.61	1.60	yes	SI	Excluded Area
5	0.400	0.500	100	1.40	1.33	1.37	no	SI	-273.80
6	0.500	0.600	100	0.59	0.71	0.65	no	SI	30.00
7	0.600	0.700	100	0.57	0.68	0.62	no	SI	30.00
8	0.700	0.800	100	0.73	0.76	0.75	no	SI	0.00
9	0.800	0.900	100	0.59	0.59	0.59	no	SI	30.00
10	0.900	1.000	100	0.54	0.60	0.57	no	SI	30.00
11	1.000	1.100	100	0.63	0.69	0.66	no	SI	30.00
12	1.100	1.200	100	0.64	0.75	0.70	no	SI	30.00
13	1.200	1.300	100	0.68	0.69	0.69	no	SI	30.00
14	1.300	1.400	100	0.68	0.65	0.67	no	SI	30.00
15	1.400	1.500	100	0.66	0.67	0.67	no	SI	30.00
16	1.500	1.600	100	0.67	0.67	0.67	no	SI	30.00
17	1.600	1.700	100	0.59	0.59	0.59	no	SI	30.00
18	1.700	1.746	46	1.23	1.27	1.25	yes	SI	Excluded Area
19	1.746	1.846	100	0.72	0.73	0.73	no	SI	0.00
20	1.846	1.880	34	1.10	1.06	1.08	no	SI	0.00
Total Assessment								196.20	

Comments: Sublot number 5 from km 0.400 to km 0.500 was repaired and retested. Sublot 18 from km 1.700 to 1.746 was excluded for railway tracks.



Contract No:	12498	Type of Test:	Acceptance
Hwy Number	877	Contractor:	ABC
Control Section	16	IP Operator:	John Turner
		Test Date:	
Lane:	R1	(mm/dd/yyyy)	6/6/2014
Direction:	NB		

Appendix B20.b

Areas of Localized Roughness Summary							
Station (km)		IRI (m/km) Length		Excluded Area?	Excluded Area? Type of Cons.		
Start	End	Right	(m)	Yes or No	SI,SII,or SIII	Assessment \$	
27.564	27.567	2.71	3	no	SI	-\$120.00	
27.585	27.594	3.64	9	yes	SI	Excluded Area	
27.685	27.692	3.18	7	no	SI	-\$280.00	
	Total Assessment						

Comments: Excluded area beginning at km 27.585 was due to railway tracks. Other Areas of Localized Roughness were judged not to require repair as ride quality was not excessively effected.