

Chemical Analysis Report

CEN-DIST-2021-05-05-05

Florida Department of Environmental Protection
Central Laboratory
2600 Blair Stone Road
Tallahassee, FL 32399-2400
DOH Accreditation E31780

Event Description: **Little Haw Creek / Lake Dias**
Request ID: **RQ-2021-03-29-03**
Customer: **CEN-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
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3319 Maguire Blvd., Suite 232
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Certified by: Kerry Tate, Ph.D., Environmental Administrator

Date Certified: 25-MAY-2021 14:00

A handwritten signature in black ink that reads "Kerry Tate". The signature is written in a cursive, flowing style with a horizontal line above the first name.

Case Narrative

Unless otherwise noted, all samples included in this report were received in accordance with protocols referenced in Chapter 62-160, Florida Administrative Code (F.A.C.). Results published in this report pertain only to the samples as submitted to, and received by the laboratory. All times in this report are adjusted to the applicable Eastern Time Zone (EST or EDT).

Results for the following analytical group are included in this report: Nutrients.

Scientific notation may be used in reporting very large or small values. Values reported using scientific notation will take the form of the following example: 1.3E+03, which is equivalent to 1.3×10^3 or 1300.

Unless otherwise noted, analytical values for soil and sediment samples are reported on a dry weight basis, and analytical values for waste and tissue samples are reported on a wet weight basis.

Results for TNI accredited tests met requirements established by The NELAC Institute. A double asterisk (**) is used to indicate an analyte/matrix/method for which the laboratory is not TNI accredited by the Florida Department of Health Environmental Laboratory Certification Program or where accreditation for that field of testing is not applicable.

Any significant anomalies or deviations from established protocols are documented in Non-Conformance Reports, which, where appropriate, are included within this analytical report. Additional comments related to specific analytical tests may be included as remarks following the analytical results for each sample. Such comments and remarks are for informational purposes only and are not intended to convey judgement about the usability of the reported data.

A quality control report on the performance of the test method for the submitted samples is included. Uncertainty associated with the analytical results contained in this report can be estimated from the reported quality assurance results and from published quality control acceptance limits for each analytical test. Matrix quality control results (matrix spike recoveries and matrix sample precision) pertain only to the matrix sample tested and do not necessarily reflect test method performance for other samples.

Typical matrix quality control (QC) measurements may include matrix spike recovery, matrix spike duplicate recovery, matrix spike precision and matrix sample precision. Not all matrix QC results may be available or reportable; where they are not an explanation is provided. Typical reasons for unavailable QC results include, but are not limited to, a) insufficient matrix sample to perform some or all QC measurements; b) analyte concentration in the sample replicated was too low for a meaningful measurement of precision and c) analyte concentration in the matrix sample spiked was too high (relative to the amount of analyte spiked) for a meaningful measurement of recovery. Where matrix QC results are unavailable, other method performance metrics (e.g., LCS recovery, LCS precision, surrogate recovery) may be used to assess performance of the method. Comments explaining any missing QC measurements are not intended to convey any adverse conclusions about the quality of the reported data.

Precision is reported as relative percent difference unless otherwise noted.

Quality Control codes as defined below may be used in this report to indicate results that are associated with one or more quality control elements which did not fall within established test method criteria. Such results may be qualified as estimates using a J qualifier as required by 62-160 F.A.C. Explanations are included in the report for any results that were reported as estimates for other reasons.

QC Codes used in this report may include:

- LCS – Recovery for the batch Laboratory Control Sample (LCS) was outside existing control limits;
- MS – Recovery for the batch matrix spike (MS) was outside existing control limits;
- CCV – Recovery for a continuing calibration verification (CCV) standard was outside existing control limits;
- SUR – Recovery of a surrogate (SUR) for associated analytes was outside existing control limits;
- RPD – The precision, measured as relative percent difference (RPD), of batch replicate measurements was outside existing control limits;
- RSD – The precision, measured as relative standard deviation (RSD), of batch replicate measurements was outside existing control limits;
- SMP – Sample - used precision derived from replicate analyses of a sample;

The following data qualifiers are used, where applicable, in this report as specified in 62-160 F.A.C.

- A - Value reported is the mean of two or more determinations.
- B - Results based on colony counts outside the acceptable range.
- I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- J - Estimated value and/or the analysis did not meet established quality control criteria.
- K - Actual value is known to be less than value given.
- L - Actual value is known to be greater than value given.
- N - Presumptive evidence of presence of material.
- O - Sampled, but analysis lost or not performed.
- Q - Sample held beyond normal holding time.
- T - Value reported is less than the criterion of detection.
- U - Material was analyzed for but not detected. The reported value is the method detection limit for the sample analyzed.
- V - Analyte was detected in both sample and method blank.
- X - Too few individuals to calculate SCI value.
- Y - The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.
- Z - Colonies were too numerous to count (TNTC).

Quality control information from overflow laboratories may not be included in this report. Please refer to the associated report from the overflow laboratory for additional information.

Sample Location: Lake Dias @ Center

Collection Date/Time: 05/04/2021 11:12

Field ID: G2CE0235

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2245380	EPA 180.1 Rev. 2.0	Turbidity	3.9	A	NTU	P397701	
	EPA 300.0 Rev. 2.1	Chloride	18		mg Cl/L	P398560	
		Sulfate	5.4		mg SO4/L	P398563	
	SM 2120 B-2011	Color (true)	100		PCU	P397708	
	SM 2320 B-2011	Total Alkalinity	22		mg CaCO3/L	P398174	
	SM 2540 C-2011	TDS	91		mg/L	P398145	
	SM 2540 D-2011	TSS	4	I	mg/L	P397945	
	SM 4500 F-C-2011	Fluoride	0.044	I	mg F/L	P397859	
2245381	EPA 350.1 Rev. 2.0	Ammonia-N	0.007		mg N/L	P398218	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.96		mg N/L	P398002	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P397815	
	EPA 365.1 Rev. 2.0	Total-P	0.030		mg P/L	P398132	
	SM 5310 B-2011	Organic Carbon	15		mg C/L	P397942	
2245382	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P397689	

Ref. Method and Comment:

EPA 365.1 Rev. 2.0: Total-P: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P397701

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P398560

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P398563

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P398218

Component	Result	Code	Units
Ammonia-N	0.002	U	mg N/L

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P398002

Component	Result	Code	Units
Kjeldahl Nitrogen	0.080	U	mg N/L

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P397815

Component	Result	Code	Units
NO2NO3-N	0.004	U	mg N/L

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P398132

Component	Result	Code	Units
Total-P	0.002	U	mg P/L

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P397689

Component	Result	Code	Units
O-Phosphate-P	0.004	U	mg P/L

Reference Method: SM 2120 B-2011
Batch ID: P397708

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Quality Assurance Report

Method Blank Results

Reference Method: SM 2320 B-2011
Batch ID: P398174

Component	Result	Code	Units
Total Alkalinity	0.65	U	mg CaCO ₃ /L

Reference Method: SM 2540 C-2011
Batch ID: P398145

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P397945

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P397859

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P397942

Component	Result	Code	Units
Organic Carbon	0.50	U	mg C/L

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P398560

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	101		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P398563

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	100		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P398218

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	97.4		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P398002

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	95.4		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P397815

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	100		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P398132

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	102		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P397689

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	100		P	90 - 110

Reference Method: SM 2120 B-2011
Batch ID: P397708

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	100		P	85 - 115

Reference Method: SM 2320 B-2011
Batch ID: P398174

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	98.7		P	93 - 104

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 4500 F-C-2011
Batch ID: P397859

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.6		P	90 - 106

Reference Method: SM 5310 B-2011
Batch ID: P397942

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.0		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P398560

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2244979	Chloride	100		P	90 - 110
2245380	Chloride	97.9		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P398563

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2244979	Sulfate	100		P	90 - 110
2245380	Sulfate	98.3		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P398218

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2245392	Ammonia-N	96.4	97.4	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P398002

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2245381	Kjeldahl Nitrogen	98.0	102	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P397815

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2245280	NO2NO3-N	98.6	98.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P397689

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2245009	O-Phosphate-P	98.0	98.6	P/P	90 - 110

Reference Method: SM 4500 F-C-2011
Batch ID: P397859

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2244969	Fluoride	99.3	99.3	P/P	94 - 107

Reference Method: SM 5310 B-2011
Batch ID: P397942

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2245373	Organic Carbon	95.5	94.2	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P397701

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2245380	Turbidity	5.13	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P398560

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2244979	Chloride	0.852	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P398563

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2244979	Sulfate	0.938	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P398218

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2245392	Ammonia-N	0.789	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P398002

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2245381	Kjeldahl Nitrogen	2.24	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P397815

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2245280	NO2NO3-N	0.447	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P398132

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2245301	Total-P	1.90	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P397689

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2245009	O-Phosphate-P	0.400	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 2120 B-2011
 Batch ID: P397708

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2245372	Color (true)	0.00393	Sample	P	0 - 20

Reference Method: SM 2320 B-2011
 Batch ID: P398174

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2245385	Total Alkalinity	1.33	Sample	P	0 - 8.1

Reference Method: SM 2540 C-2011
 Batch ID: P398145

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2245279	TDS	0.813	Sample	P	0 - 10

Reference Method: SM 2540 D-2011
 Batch ID: P397945

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2245279	TSS	2.35	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
 Batch ID: P397859

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2244969	Fluoride	0.0	Spike	P	0 - 2.8

Reference Method: SM 5310 B-2011
 Batch ID: P397942

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2245373	Organic Carbon	0.809	Spike	P	0 - 20

* Sample, spike and/or laboratory control sample precision (LCS) is reported.

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A105193

Included Lab Sample IDs: 2245382

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	101	101	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A105195

Included Lab Sample IDs: 2245380

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	98.5	99.0	P/P	95 - 105

Reference Method: SM 2120 B-2011

Run ID: A105197

Included Lab Sample IDs: 2245380

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	102	102	P/P	90 - 115

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A105247

Included Lab Sample IDs: 2245381

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	100	99.5	P/P	90 - 110

Reference Method: SM 4500 F-C-2011

Run ID: A105260

Included Lab Sample IDs: 2245380

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	99.5	101	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A105310

Included Lab Sample IDs: 2245381

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.6	97.1	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A105393

Included Lab Sample IDs: 2245381

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	96.7	97.1	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A105419

Included Lab Sample IDs: 2245380

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	99.0	97.4	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A105430

Included Lab Sample IDs: 2245381

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.3	97.8	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A105437

Included Lab Sample IDs: 2245381

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	100	100	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A105550

Included Lab Sample IDs: 2245380

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	99.9	101	P/P	90 - 110
Sulfate	99.0	100	P/P	90 - 110

* Pass/Fail determinations are made for each bracketing calibration verification check.

Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements.

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 180.1 Rev. 2.0	Turbidity					5.13	
EPA 300.0 Rev. 2.1	Chloride	101	100	97.9		0.852	
	Sulfate	100	100	98.3		0.938	
EPA 350.1 Rev. 2.0	Ammonia-N	97.4	96.4	97.4			0.789
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	95.4	98.0	102			2.24
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	100	98.6	98.0			0.447
EPA 365.1 Rev. 2.0	Total-P	102					1.90
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	100	98.0	98.6			0.400
SM 2120 B-2011	Color (true)	100				0.0039	
SM 2320 B-2011	Total Alkalinity	98.7				1.33	
SM 2540 C-2011	TDS					0.813	
SM 2540 D-2011	TSS					2.35	
SM 4500 F-C-2011	Fluoride	98.6	99.3	99.3			0.0
SM 5310 B-2011	Organic Carbon	96.0	95.5	94.2			0.809

Reference Method Descriptions

Method	Description	<u>Associated Samples</u>
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2245380
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2245380
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2245380
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2245381
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2245381
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2245381
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2245381
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2245382
SM 2120 B-2011	True Color measured at 450 nm (not valid for NPDES monitoring)	2245380
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2245380
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2245380
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2245380
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2245380
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2245381

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 180.1 Rev. 2.0	05/05/2021			05/05/2021 16:05	Yen Ta	2245380
EPA 300.0 Rev. 2.1	05/05/2021			05/20/2021 21:13	Lipi Saha	2245380
EPA 350.1 Rev. 2.0	05/05/2021			05/14/2021 13:04	Ping Hua	2245381
EPA 351.2 Rev. 2.0	05/05/2021	05/11/2021 13:52	Benjamin T. Nordmann	05/12/2021 15:05	Virginia P. Brown	2245381
EPA 353.2 Rev. 2.0	05/05/2021			05/07/2021 09:49	Beverly Y. Sanders	2245381
EPA 365.1 Rev. 2.0	05/05/2021	05/13/2021 14:14	Yen Ta	05/14/2021 13:40	Shengyu Ding	2245381
EPA 365.1 Rev. 2.0 dissolved	05/05/2021			05/05/2021 15:03	Patrick M. Roche	2245382
SM 2120 B-2011	05/05/2021			05/05/2021 17:36	Sarah A Nixon	2245380
SM 2320 B-2011	05/05/2021			05/13/2021 03:57	Dale L. Simmons	2245380
SM 2540 C-2011	05/05/2021			05/07/2021 14:21	Yijie Li	2245380
SM 2540 D-2011	05/05/2021			05/07/2021 14:21	Yijie Li	2245380
SM 4500 F-C-2011	05/05/2021			05/07/2021 20:59	Samantha Davila	2245380
SM 5310 B-2011	05/05/2021			05/10/2021 20:57	Madeline Gruver	2245381