

Task Number:1301713/007**Task Address:**11 PROSPECT HILL ROAD, MCCRAE 3938 MapRef : 159B9**Program Name:****Task Work Type:**Unknown - Investigation**Source Of Work:****Facility:****Permit Not Required:**No**Permit Pre Approved:**No**Permit Reason:**Other**Permit Other Reason:**

Task Story:[Pham,Dat] [14/2/2025 17:13] [ALLOCATED] photos and results attached. Red notice to be sent to 5 prospect hill after leak detection confirm internal leak [Pham,Dat] [14/2/2025 17:23] [ALLOCATED] leak detection notes from Hayden Philips on 11th Feb. meter at 5 Prospect Hill has sound on it but after turning off stop tap sound goes. There may well be an internal leak here, customer wasn't home to ask if they were using water/ are aware. Sound was constant over my time on site. Property has a basement too which I'm assuming pumps to sw discharge in curb and channel (tested at EC106). Constant trickle here, though leak doesn't seem large as meter is only just turning over.

Caller Details:mansfield

Request Details:job to record Seepage testing conducted at 11 Prospect Hill Rd and 5 Prospect Hill. Samples taken on the 3rd Feb

Action Taken :Water Network - General - Post incident investigation**Task CCT:**Water Network - General - Miscellaneous**Failure Details:**0 Not Applicable - Not Applicable - Not Applicable**Task Priority:**10 14/02/2025 17:00**Is Chargeable:**No**Is Pending:**No**Is Cancelled:**No**Is Component Type:**No**PO Department:**Water Maintenance**PO Supervisor:****Contractor:**South East Water**Created By:**Pham, Dat**Department:**SEW Water**Supervisor:**McNab,Marc**Allocatee:****Task Status:**CLOSED**Asset List**

| Asset | Asset Name | Parent | SI Present? |
|-------|------------|--------|-------------|
|-------|------------|--------|-------------|

Allocatee History

| | | | |
|--|--|--|--|
| | | | |
|--|--|--|--|

| Allocatee Name | Current | Primary |
|----------------|---------|---------|
| Kellett, Rob | N | Y |

SI List

| SI Name | Rec |
|---------|-----|
|---------|-----|

Task Number:1301713/007

Task Story:

Payment Type:

SEW Sales Code:

Contractor CostCode:

Contractor SalesCode:

Material List

| Part No | Description | Supplier Contractor | Quantity | Units | Unit Price(\$) | Vehicle | Del Date | Rec Date |
|---------|-------------|---------------------|----------|-------|----------------|---------|----------|----------|
|---------|-------------|---------------------|----------|-------|----------------|---------|----------|----------|

Material List (continued...)

| Part No | MAC Material Included | Total(\$) |
|---------|-----------------------|-----------|
|---------|-----------------------|-----------|

Total Materials Cost:

Labour List

| Resource ID | Resource Name | Supplier Contractor | Activity Description | Start Date/Time |
|-------------|---------------|---------------------|----------------------|-----------------|
|-------------|---------------|---------------------|----------------------|-----------------|

Labour List (continued...)

| Resource ID | End Date/Time | Hours | Est. ChargeRate(\$) | Est. CostRate(\$) |
|-------------|---------------|-------|---------------------|-------------------|
|-------------|---------------|-------|---------------------|-------------------|

Total Charge Rate:

Total Cost Rate:

Contractor Claims List

| Claims Code | Description | Claim Type | Supplier Contractor | Quantity | Units | Unit Price(\$) | Total (\$) |
|-------------|-------------|------------|---------------------|----------|-------|----------------|------------|
|-------------|-------------|------------|---------------------|----------|-------|----------------|------------|

Contractor Claims List

| Service Code | Description | Quantity | Units | Unit Price(\$) | Total(\$) |
|--------------|-------------|----------|-------|----------------|-----------|
|--------------|-------------|----------|-------|----------------|-----------|

Total Claims Cost:

Chargeable Items

| Item Code | Description | Supplier Contractor | Quantity | Units | Unit Price (\$) | Total(\$) |
|-----------|-------------|---------------------|----------|-------|-----------------|-----------|
|-----------|-------------|---------------------|----------|-------|-----------------|-----------|

Total Chargeable Cost:**Total Services Cost:****Task Cost Scheme:**Service Call**Is Extra Travel Authorised:**No**UTA Item:****Labour Cost:****Vehicle Cost:****Plant Cost:****Materials Cost:****Sub-Total:****Travel Adjustment:****Actual Adjustment:****Adjusted Sub Total:****Risk Events Sub-Total Cost:****Risk Events Sub-Total Cost:****Non-UTA Materials Cost:****Total Cost:****Total Cost:****UOM Value:****Total Quantity:****AAC / ARC:****MAC / MRC Value:****Service Call Cost:** CIC**Quoted Cost:****T&M Labour Cost:****T&M Vehicle Cost:****T&M Plant Cost:****T&M Sub-Total:****T&M Travel Adjustment:****T&M Actual Adjustment:****T&M Adjusted Sub Total:****T&M Material Cost:****T&M Total Cost:****SEW Labour Cost:** CIC**SEW Vehicle Cost:****SEW Plant Cost:** CIC**SEW Materials Cost:** CIC**SEW Sub-Total:****SEW Total Contractor Claims:** CIC**MSF Cost:** CIC**Total SEW Cost:** CIC**Provisional Contractor Claims:** CIC

WSI Details

| Task Id | WSI Id | Planned Start | Actual Start | Planned Finish | Actual Finish | Emergency | Prop Count |
|---------|--------|---------------|--------------|----------------|---------------|-----------|------------|
|---------|--------|---------------|--------------|----------------|---------------|-----------|------------|

WSI Details (continued...)

| Task Id | WSI Status |
|---------|------------|
|---------|------------|

Task Number:1301713/007**Task Events**

| Task Event | Event Date Time | Is Key Event | Allocatee | Is Primary | Is Onsite | Is Work | Is Auto |
|---------------|------------------|--------------|-----------|------------|-----------|---------|---------|
| CLOSED | 3/04/2025 13:09 | Yes | - | - | No | No | Yes |
| SCWIP | 3/04/2025 13:08 | Yes | - | - | No | No | Yes |
| CHECKED | 3/04/2025 13:08 | Yes | - | - | No | No | Yes |
| DATA COMPLETE | 3/04/2025 13:08 | Yes | - | - | No | No | Yes |
| WORK COMPLETE | 3/04/2025 13:08 | Yes | - | - | No | No | Yes |
| ALLOCATED | 14/02/2025 16:50 | Yes | - | - | No | No | Yes |
| AWARDED | 14/02/2025 16:50 | Yes | - | - | No | No | Yes |





Parashar, Pranay

From: Stuart Paarman <LIMS.Team@alsglobal.com>
Sent: Tuesday, 4 February 2025 3:53 PM
To: Pham, Dat
Cc: viclabware@alsglobal.com; Eco.LimsInvoices@alsglobal.com
Subject: ALS WATER Certificate of Analysis for project 25-11902 - Ref: McCrae Seepage
 03/02/2025 -- 03/02/2025
Attachments: 25-11902-00248629-C.pdf; 25-11902-00248629-QC.pdf

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This message came from outside your organization.

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Please find attached the Certification of Analysis detailing the Final Test results for your samples that were submitted and assigned to
 ALS Water and Hydrographics Pty Ltd Project No 25-11902 and Report Number 248629.

Client Program Reference: McCrae Seepage
 Date Sampled (or range): 03/02/2025
 Date Received (or range): 03/02/2025

This is an automated message - please don't reply to this address.

If you have any queries or require further information please contact your ALS Water and Hydrographics Pty Ltd
 client manager on 03 8756 8000 and
 quote Project 25-11902 and Report Number 248629

ALS Water

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 intended recipient, you must not use, review, pass on, distribute or copy this document or any attachments.
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 and attachments.



CERTIFICATE OF ANALYSIS

| | | |
|-----------------------------|---|---|
| Batch No: | 25-11902 | Page 1 of 2 |
| <i>Final Report</i> | 248629 | |
| <i>Client:</i> | South East Water Corporation | <i>Laboratory</i> |
| <i>Contact:</i> | Dat Pham | <i>Address</i> |
| <i>Address:</i> | Service Delivery 101 Wells Road FRANKSTON VIC 3199 AUSTRALIA | Scoresby Laboratory Caribbean Business Park, 22 Dalmore Drive, Scoresby, VIC 3179 03 8756 8000 03 9763 1862 Stuart Paarman Client Manager Stuart.Paarman@alsglobal.com |
| <i>PO No:</i> | SEW104025 | <i>Phone</i> |
| <i>Sampler Name:</i> | Rob Kellett | <i>Fax</i> |
| <i>ALS Program Ref:</i> | SEWMISC | <i>Contact:</i> |
| <i>Program Description:</i> | South East Water - Miscellaneous Analysis | |
| <i>Client Ref:</i> | McCrae Seepage | |
| | | <i>Date Sampled:</i> |
| | | 03-Feb-2025 |
| | | <i>Date Samples Received:</i> |
| | | 04-Feb-2025 |
| | | <i>Date Issued:</i> |
| | | 04-Feb-2025 |

The hash (#) below indicates methods not covered by NATA accreditation in the performance of this service .

| <i>Analysis</i> | <i>Method</i> | <i>Laboratory</i> | <i>Analysis</i> | <i>Method</i> | <i>Laboratory</i> |
|-----------------|---------------|-------------------|-----------------|---------------|-------------------|
| Chloride | WD045G | Scoresby | EC | WA010 | Scoresby |
| Fluoride | WK040LL | Scoresby | NH3 as N | WK055G | Scoresby |
| pH | WA005 | Scoresby | SO4 DA | WD041G | Scoresby |

Result for pH in water tested in the laboratory may be indicative only as holding time is generally not achievable.

Signatories

| <i>Name</i> | <i>Title</i> | <i>Name</i> | <i>Title</i> |
|-----------------------|------------------------------|------------------------|----------------|
| Asiri Nissanka | Laboratory Technician | Thanh U. Nguyen | Analyst |

Samples not collected by ALS and are tested as received.

Calculated results are based on raw data.

Samples are tested within holding time unless otherwise stated.

Results contained within this report relate only to the samples tested.

The report shall not be reproduced, except in full.

Batch No: 25-11902
 Report Number: 248629
 Client: South East Water Corporation
 ALS Program Ref: SEWMISC
 Program Description: South East Water - Miscellaneous Analysis



| Sample No | Site Code | Site Description | Sample Type | Sampled Date/Time |
|-----------|-----------|--|-------------|-------------------|
| 10787181 | NONE | 11 Prospect Hill Storm Pit - #11 Prospect Hill Storm Pit | WATER | 03/02/25 10:40 |
| 10787182 | NONE | 5 Prospect Hill Storm Drain to Gutter - #5 Prospect Hill Storm Drain to Gutter | WATER | 03/02/25 10:50 |

| Analysis - Analyte | | Sample No. Site Code Units | 10787181 NONE | 10787182 NONE |
|------------------------------------|----------|----------------------------------|------------------|------------------|
| pH - pH, units | Units | | 7.1 | 7.7 |
| EC - Electrical Conductivity @ 25C | uS/cm | | 400 | 140 |
| Fluoride - Fluoride, as F | mg/L | | 0.14 | 0.86 |
| Chloride - Chloride, as Cl | mg/L | | 83 | 20 |
| SO4 DA - Sulphate, as SO4 | mg/L | | 14 | 5 |
| NH3 as N - Ammonia, as N | mg N / L | | <0.1 | 0.1 |

A blank space indicates no test performed.



QUALITY CONTROL REPORT

Program : SEWMISC
 Client : SEW-SD
 Contact : Dat Pham
 Project : 25-11902
 Customer Ref : McCrae Seepage
 Sampler : Rob Kellett
 Order Number : SEW104025

Page : 1 of 3
 Laboratory : Scoresby Laboratory
 Telephone : 03 8756 8000
 Date Samples Received : 04-February-2025
 Issue Date : 04-February-2025
 No. Samples Received : 2
 No. Samples Analysed : 2

This report is automatically generated by the ALS LIMS through interpretation of the ALS Quality Control Report and several Quality Assurance parameters measured by ALS. This automated reporting highlights any non-conformances, facilitates faster and more accurate data validation and is designed to assist internal and external review. Many components of this report contribute to the overall Quality assessment.

Brief method summaries and references are also provided to assist in traceability.

Brief Method Summaries

The analytical procedures used by the Water Business have been developed from established internationally recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at client request. The following table provides brief descriptions of the analytical procedures employed for results reported in the Certificate of Analysis. Sources from which ALS methods have been developed are provided within the Method Descriptions.

| Analytical Methods | Method | Matrix | Method Descriptions |
|--------------------|---------|--------|---|
| W-Chloride(DA) | WD045G | WATER | In-house: Referenced to APHA 4500 Cl - G. The thiocyanate ion is liberated from mercuric thiocyanate through sequestration of mercury by the chloride ion to form non-ionised mercuric chloride. Librated thiocynate forms coloured ferric thiocyanate. |
| W-EC | WA010 | WATER | In-house: Referenced to APHA 2510 B. Conductivity is determined by ISE, either manually or automated measurement. |
| FLUORIDE AS F | WK040LL | WATER | In-house: Referenced to APHA 4500-F C. This method is applicable to the analysis of fluoride in fluoridated drinking water, leachates, surface and groundwater plus effluents. |
| NH3 as N | WK055G | WATER | In-house: Referenced to APHA 4500-NH3 G. Ammonia is determined by direct colorimetry by Discrete Analyser. |
| PH UNITS | WA005 | WATER | In-house: Referenced to APHA 4500 H+ B. pH of water samples is determined by ISE either manually or by automated pH meter. |
| W-SO4-Da | WD041G | WATER | In-house: Referenced to APHA 4500-SO4. Sulfate ions are converted to a barium sulfate suspension and determined by a discrete analyser. |

Analysis Holding Time Compliance

Holding times may vary depending on test and preservation used. If samples are identified below as having been analysed or extracted outside of recommended holding times, this should be taken into consideration when interpreting results. This report summarizes extraction / preparation and analysis times and compares each with ALS Water recommended holding times (referencing USEPA SW 846, APHA, AS and NEPM) based on the sample container provided. Dates reported represent first date of extraction or analysis and preclude subsequent dilutions and reruns.

| Method | | Extraction / Preparation | | | Analysis | | |
|------------------------|--------------|--------------------------|----------------|------------|------------------|---------------|------------|
| Sample Number | | | | | | | |
| WD045G :W-Chloride(DA) | Sampled Date | Due for Extraction | Date Extracted | Evaluation | Due for analysis | Date analysed | Evaluation |
| 10787181 | 03-Feb-2025 | 3-Mar-2025 | 4-Feb-2025 | ✓ | 03-Mar-2025 | 04-Feb-2025 | ✓ |
| 10787182 | 03-Feb-2025 | 3-Mar-2025 | 4-Feb-2025 | ✓ | 03-Mar-2025 | 04-Feb-2025 | ✓ |
| WA010 :W-EC | Sampled Date | Due for Extraction | Date Extracted | Evaluation | Due for analysis | Date analysed | Evaluation |
| 10787181 | 03-Feb-2025 | 3-Mar-2025 | 3-Feb-2025 | ✓ | 03-Mar-2025 | 03-Feb-2025 | ✓ |
| 10787182 | 03-Feb-2025 | 3-Mar-2025 | 3-Feb-2025 | ✓ | 03-Mar-2025 | 03-Feb-2025 | ✓ |
| WK040LL :FLUORIDE AS F | Sampled Date | Due for Extraction | Date Extracted | Evaluation | Due for analysis | Date analysed | Evaluation |
| 10787181 | 03-Feb-2025 | 3-Mar-2025 | 3-Feb-2025 | ✓ | 03-Mar-2025 | 03-Feb-2025 | ✓ |
| 10787182 | 03-Feb-2025 | 3-Mar-2025 | 3-Feb-2025 | ✓ | 03-Mar-2025 | 03-Feb-2025 | ✓ |
| WK055G :NH3 as N | Sampled Date | Due for Extraction | Date Extracted | Evaluation | Due for analysis | Date analysed | Evaluation |
| 10787181 | 03-Feb-2025 | 3-Mar-2025 | 4-Feb-2025 | ✓ | 03-Mar-2025 | 04-Feb-2025 | ✓ |
| 10787182 | 03-Feb-2025 | 3-Mar-2025 | 4-Feb-2025 | ✓ | 03-Mar-2025 | 04-Feb-2025 | ✓ |
| WA005 :PH UNITS | Sampled Date | Due for Extraction | Date Extracted | Evaluation | Due for analysis | Date analysed | Evaluation |
| 10787181 | 03-Feb-2025 | 3-Feb-2025 | 3-Feb-2025 | ✗ | 03-Feb-2025 | 03-Feb-2025 | ✗ |
| 10787182 | 03-Feb-2025 | 3-Feb-2025 | 3-Feb-2025 | ✗ | 03-Feb-2025 | 03-Feb-2025 | ✗ |
| WD041G :W-SO4-Da | Sampled Date | Due for Extraction | Date Extracted | Evaluation | Due for analysis | Date analysed | Evaluation |
| 10787181 | 03-Feb-2025 | 3-Mar-2025 | 4-Feb-2025 | ✓ | 03-Mar-2025 | 04-Feb-2025 | ✓ |
| 10787182 | 03-Feb-2025 | 3-Mar-2025 | 4-Feb-2025 | ✓ | 03-Mar-2025 | 04-Feb-2025 | ✓ |

QUALITY CONTROL - DUPLICATES

The quality control term Laboratory Duplicate refers to a randomly selected intralaboratory split. Laboratory duplicates provide information regarding method precision and sample heterogeneity. The permitted ranges for the Relative Percent Deviation (RPD) of Laboratory Duplicates are specified in ALS Method QWI-EN/38 and are dependent on the magnitude of results in comparison to the level of reporting: Result < 10 times LOR: No Limit; Result between 10 and 20 times LOR: 0% - 50%; Result > 20 times LOR: 0% - 20%.

| Lab ID | Client ID | Method :Compound | LOR | Unit | Sample Value | Duplicate Value | % RPD |
|----------|-----------|-------------------------|-----|------------|--------------|-----------------|-------|
| 10788386 | 10669577 | FLUORIDE AS F: FLUORIDE | | <0.05 mg/L | 0.78 | 0.78 | 0.4 |
| 10788387 | 10694739 | FLUORIDE AS F: FLUORIDE | | <0.05 mg/L | 0.82 | 0.83 | 1.9 |

Measurement of Uncertainty.

When any measurement is made there are a number of factors that affect how accurate the result is. Every step undertaken in the analysis of a sample is subject to some (small) level of error. Estimates of measurement uncertainty provide information about the relative size of the error. As such, MU is an important aspect of any result. Refer to Enviromail™ 53 - What is Measurement Uncertainty for more information.

| Analysis | Method Code | Component | Location |
|---------------|-------------|-----------|----------|
| | | | MEL |
| FLUORIDE AS F | WK040LL | FLUORIDE | 15% |
| W-EC | WA010 | EC | 5% |

| Analysis | Method Code | Component | Location |
|----------------|-------------|----------------|----------|
| | | | MEL |
| NH3 as N | WK055G | AMMONIA_DA | 14% |
| W-Chloride(DA) | WD045G | W-CHLORIDE(DA) | 16% |