

# VALENTINO

## Detox Commitment Update

2017



# Summary

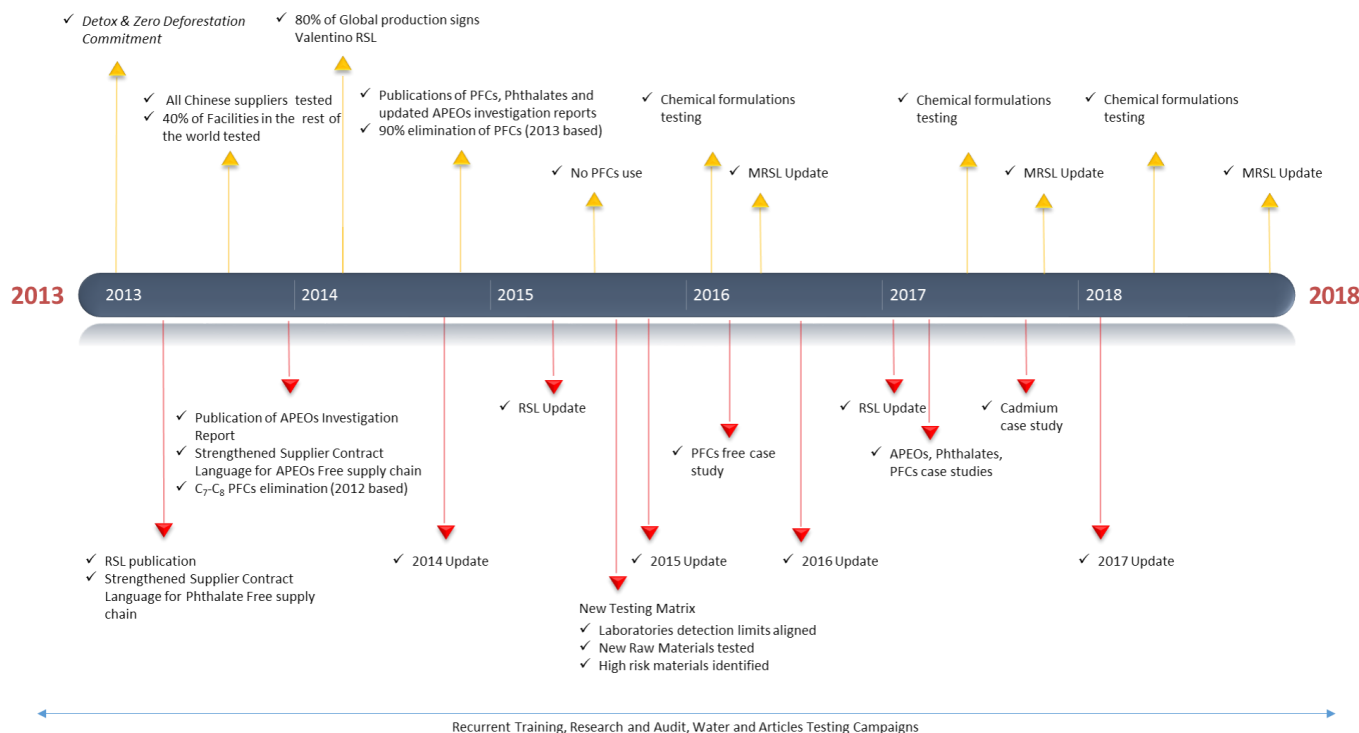
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- Commitment overview
- Implementation
- Tools
- Reporting
  - Wet-Processes Suppliers Map
  - Focus on substances
- Conclusions/Next Steps

# Commitment Overview

Further to VALENTINO SPA's (VSPA) Detox Commitment of February 6th 2013, and in line with the public's "right to know", this document discloses the actions undertaken by VSPA in the supervision of its global supply chain up to February 2018.

Since 2013, VSPA has performed a series of steps in order to achieve the commitment objectives. The timeline below shows the principal milestones on this path.



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# Implementation

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For Valentino, Detox is a 360° project and process.

Activities start from product concept, raw materials selection, then research, prototypes, sampling and production. Suppliers, partners, as well as Valentino employees, are active participants in the Detox process; goals, training, audit/test results and knowledge are shared with them in order to fully achieve the elimination target.

To deepen, plan and implement these activities, Valentino has gradually enlarged its sustainability and product compliance team, boasting highly qualified team members, with a background from pure and industrial chemistry, to engineering and environmental science, and with masters/specialization degrees and PhDs in relevant fields along with a long-lasting experience in the apparel sector. Furthermore, Valentino partnered with worldwide recognized testing and certification entities, Associations/Organizations, Universities, etc.

Interactions with suppliers were developed and strengthened in a structured way, since working with them is key to meet our goals. A comprehensive chemical management approach, with a deeper knowledge of the possibilities, pros and cons of available formulations, allows to better control pollution, hazard and, last but not least reduce the use of resources, costs and possible problems in production.

Therefore, we perform different kinds of activities, dealing with Environmental and Chemical Management Audits, Assessments, Wastewater Testing, Chemical formulations testing, research, Products/articles testing, Corrective actions, Follow-up, disclosure and Training.

# Tools

With this aim, we worked and created tools to:

*Enforce Supplier Contracts  
and Prevent Issues*



*Enhance Product Testing*



*Provide Training  
and Technical Support*



*Report & Monitor*



*Enhance Environmental Controls through  
Audits, Water testing, Chemicals Testing*



*Develop Research  
& Case Studies*



*Create and Query an  
Interactive Database*



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## Tools - Page 1

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### *Enforce Supplier Contracts and preventing issues*

Our Detox requirements (such as RSLs etc.), together with the code of ethics and other key business documents, are integral parts of the supplier contracts. From the beginning, suppliers are made aware of our requirements and are requested to propose and produce compliant articles/treatments, adopt a clean factory approach, and allow audit/water testing, when needed.

### *Enhance Product Testing*

Pre-tests on new articles/suppliers are performed regularly in order to prevent problems and find alternative solutions. Screening for hazardous substances in articles is conducted on a seasonal basis within the scope of Valentino's product compliance procedure and in order to verify previous steps efficiency. The screening process is based on the "Testing Packages" created for each type of substrate/treatment. Each package contains multiple groups of substances that have to be tested depending on the materials/treatments involved, applying the best available techniques for the tested substances. All results are discussed with the suppliers and problems and relative implementations are shared and made available to the various players.

### *Report & Monitor*

To share results implementations and achievements with all the supply chain actors and on our website.

### *Provide Training and Technical Support*

Technical support from us and our testing and consultancy/auditing partners is given to our suppliers in order to solve problems, identify corrective actions and improve procedures and performance. See research case studies, investigations etc. on our website.

Introductory meetings are organized with new suppliers to explain our goals and all suppliers are met/contacted on a regular basis in order to monitor their compliance with our goals, provide training, share knowledge and lessons learned. Training sessions are carried out internally and through our partners and associations we are part of, to Valentino employees and suppliers and, as per our commitment, to other members of the apparel industry.

### *Develop Research & Case Studies*

Please refer to the specific session on our website (<https://www.valentino.com/experience/it/corporate-information/>)



### *Create and Query an Interactive Database*

An interactive database related to articles, chemicals, water test and suppliers results was developed in order to elaborate data and rapidly query them to find solutions/compliant materials. The database is also used to elaborate and publish data and reports in an easy and transparent way.

## Tools – Page 2

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### *Enhance Environmental Controls through Audits, Water Testing, Chemicals Testing*

To achieve its goals, Valentino reinforces its programme assigning Assessments and Environmental Audits at relevant wet-process suppliers to selected Service Providers. Audits consist on the following main activities:

- a. Check List
- b. Water Sampling and Testing
- c. Chemicals Testing

For more details, please refer to “Environmental Controls Guidelines” on our website at:

<https://www.valentino.com/experience/it/corporate-information/> )

#### *a. Check List*

Is composed of three (3) main sections:

Section 1 - Production plant registry

Section 2 - Focus Areas:

- Environmental Management
- Permits
- Emissions
- Resources Use
- Chemical Management

Section 3 - Audit Results, Corrective Actions and Score

#### *b. Water Sampling and Testing*

Water tests aim at sampling and testing production process incoming and untreated discharge waters, where appropriate. Each additional sampling point is assessed on a case-by-case basis (sludges, additional sources of untreated water, etc.). All water samples are tested to check the presence of the 11 priority chemical groups and additional substances. This kind of screening process helps identifying the use of these chemicals in the manufacturing processes

#### *c. Chemicals Testing*

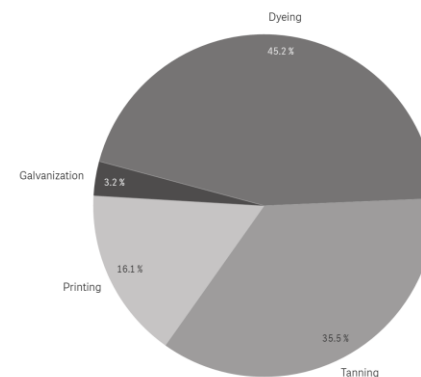
Chemical formulations to be tested are selected considering chemicals composition, materials to be treated (for instance fabric, leather, etc.), type of use in the production process (auxiliary/colorant/finishing agents, etc.), documentation availability, frequency and amount of use in the supply chain, as well as peculiarities and refinement of specific intended effects. Specific Chemicals are sampled during audits/follow-up or case studies as well. Depending on the kind of production, Service Providers are requested to sample suspect and/or the most used chemical products from the audited company chemical inventory. Starting from April 2016, a deeper Chemical formulations screening/testing has been seasonally scheduled and performed and the results are available at <https://www.valentino.com/experience/it/corporate-information/>

## Reporting - Wet-Processes Suppliers Map

As per our commitment, we published and asked our wet-suppliers to publish the water-testing data yearly, starting from 2013. Wet-suppliers locations, geographical distribution and wastewater data are published in the wet-supplier map.

Data are published on our website and we ask our suppliers to publish them, where feasible, on the IPE. The updated map and incoming water, untreated water, treated water and sludge data details coming from testing at wet-processes mills are available on our website at: [http://valentino-dev.4me.it/cloudlink/connectors/resources/download/get/valentino/CS-CSJQ4E/IT/vspa\\_wastewater\\_test\\_results-pdf](http://valentino-dev.4me.it/cloudlink/connectors/resources/download/get/valentino/CS-CSJQ4E/IT/vspa_wastewater_test_results-pdf). Taking into consideration seasonal variations, published data represent more than 80% of the active global wet-suppliers volumes involving tier 1 and tier 2/3 suppliers. The map is intended to be yearly updated. See it in the next page.

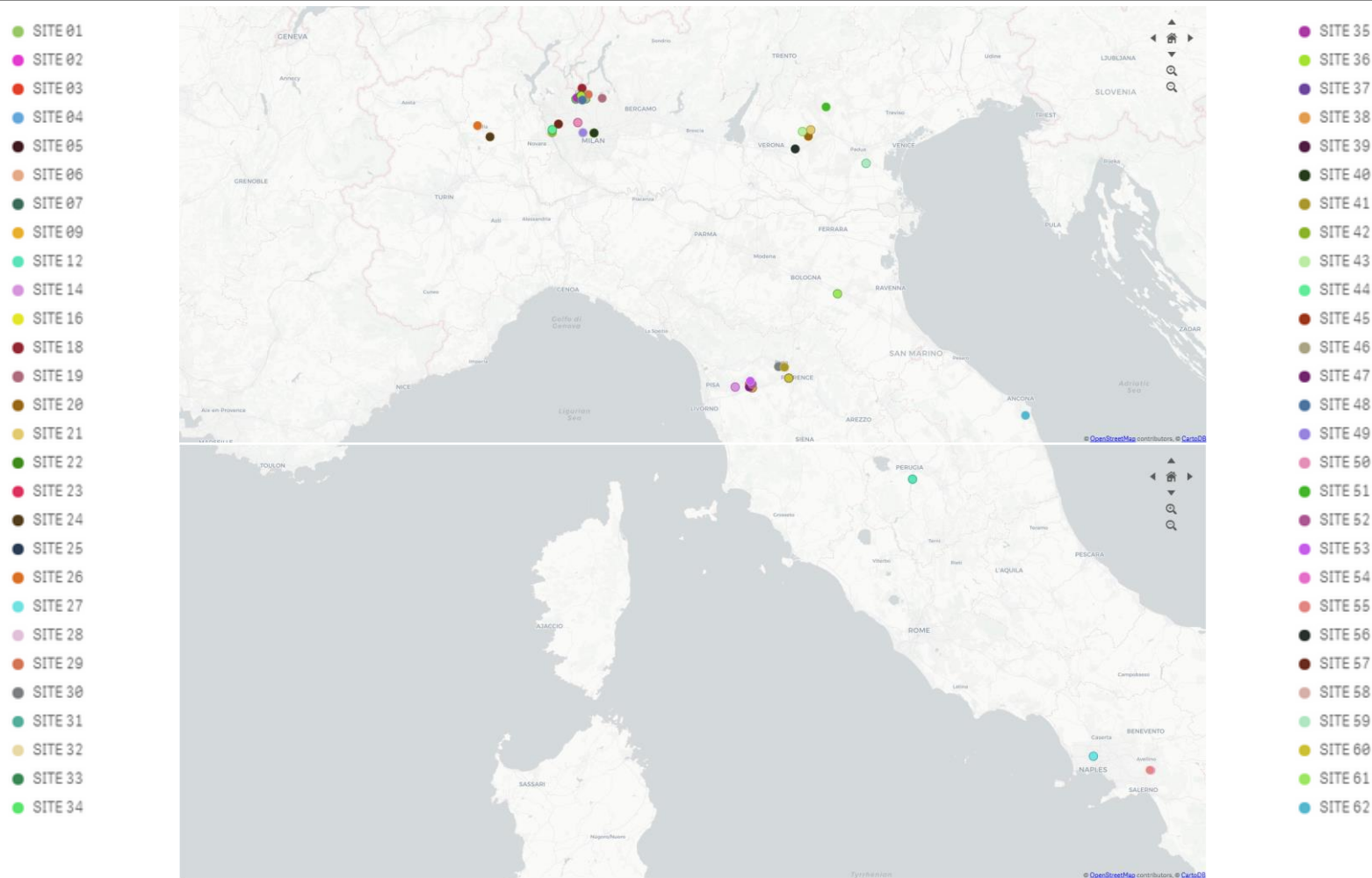
Wet processes data include not only textile dyeing mills, but also tanneries, printings facilities and relevant galvanic processes. Results are shared with suppliers and yearly elaborated, connected and integrated with testing data on products and chemicals, in order to schedule improvements, monitor progress and report in our yearly updates on our website. Suppliers are trained and made an important and active part of the process in order to prevent/avoid problems.



% of suppliers sorted by type of wet-processing



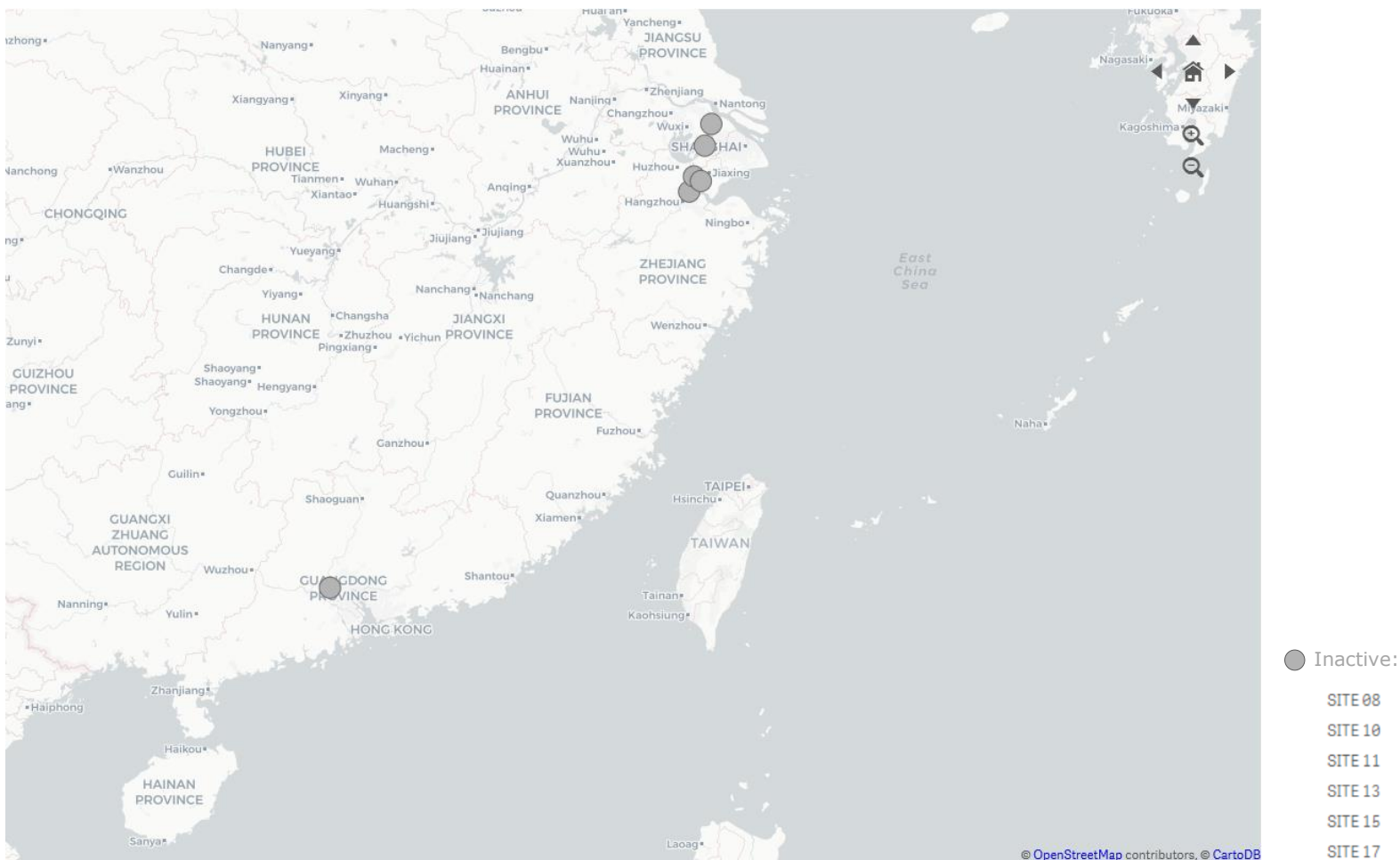
# Reporting - Wet-Processes Suppliers Map



Please refer to «wastewater» file at <https://www.valentino.com/experience/it/corporate-information/> for complete and updated data.

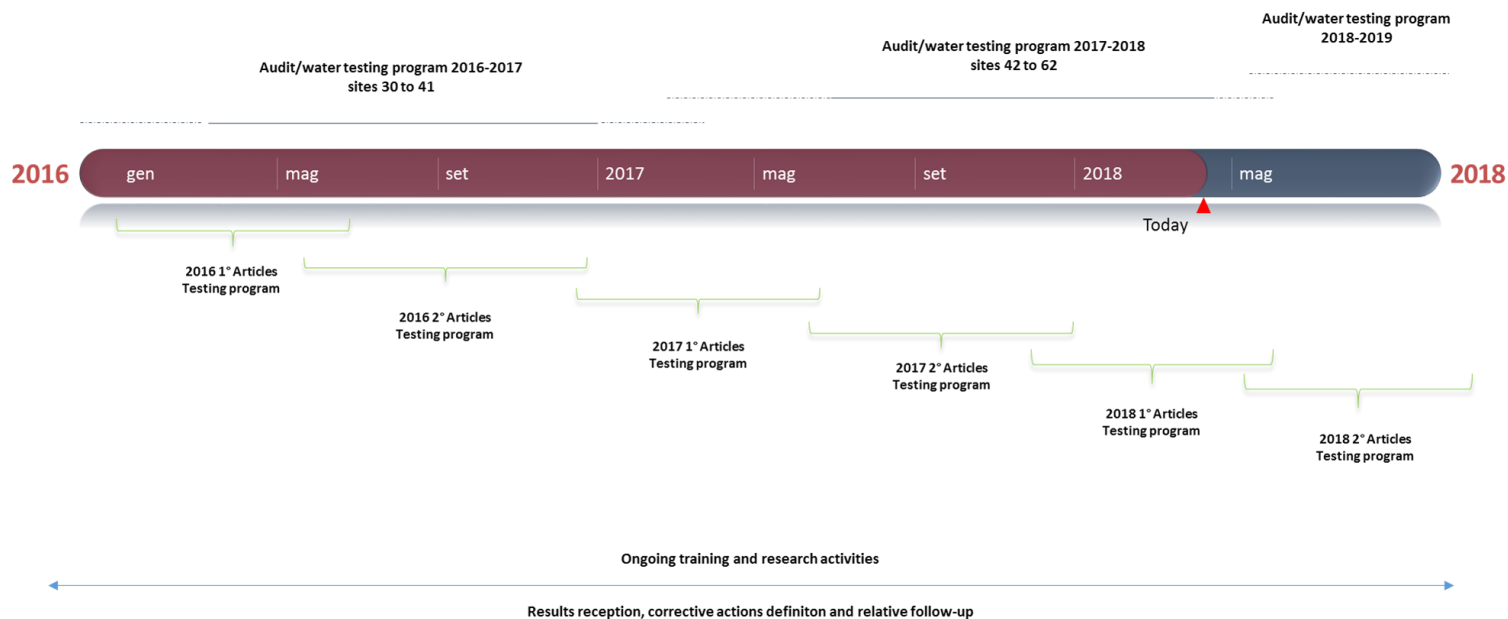
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# Reporting - Wet-Processes Suppliers Map – Inactive suppliers



## Reporting – 2017/2018 Campaigns

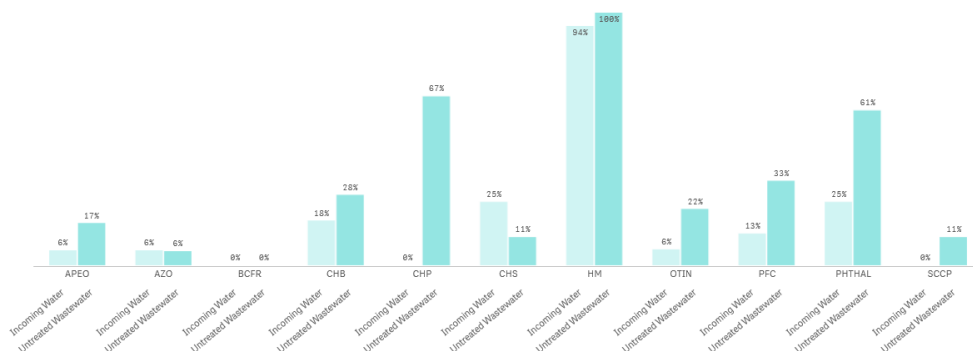
As per our procedures, we keep on monitoring and improving our supply chain by audits and testing on articles, water and chemicals. Please find below the future and ongoing activities in detail:



# Reporting – 2017 Overall Results

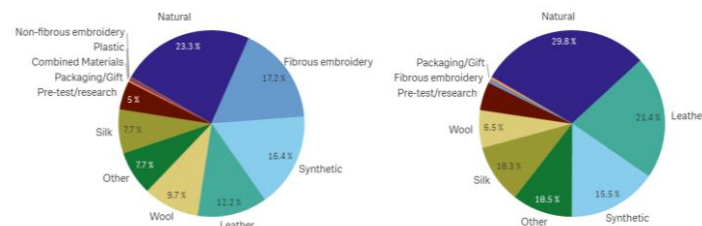
As of today, thanks also to the training and communication programs developed from 2013 onwards, all active audited sites achieved adequate score, with more than 90% of them earning “Good” – “Very Good” scores. Data output of waters and articles testing campaigns<sup>1</sup> on specific groups of substances (for 2017, APEOs, Azo Colourants, PFCs and Phthalates) have been elaborated through the interactive database and compared in the following pages. Results and outputs will be considered in the next campaigns/activities and the number of evaluated groups will gradually increase in the next months.

Investigated Substances Groups vs type of water sampling point<sup>2</sup>

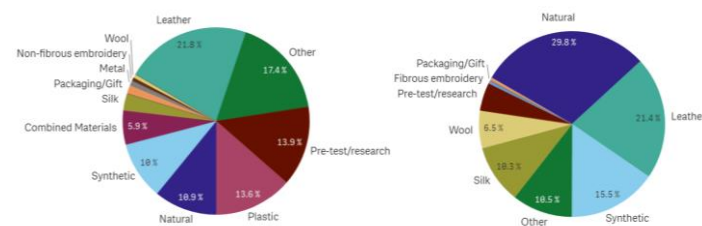


The results analysis shows that many groups of substances are detected in incoming water as well as in outgoing wastewater. Heavy Metals are almost always found in both incoming and untreated waters.

Investigated Substances Groups vs type of material



>1700 tests performed on APEOs Group      >900 tests performed on PFCs Group



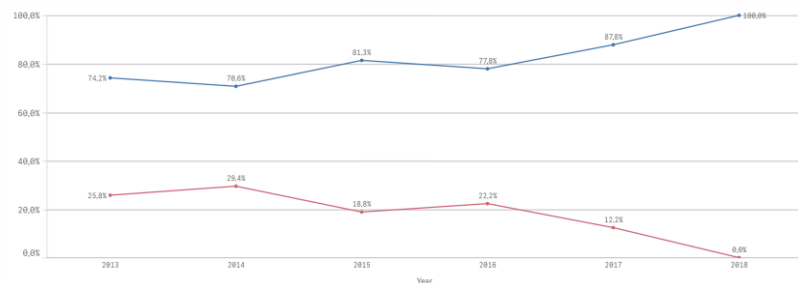
>300 tests performed on Phthalates Group      >3800 tests performed on Azo Group

<sup>1</sup> - See PRSL e MRSL at <https://www.valentino.com/experience/it/corporate-information/> for analytical details  
<sup>2</sup> - See "wastewater" file at <https://www.valentino.com/experience/it/corporate-information/> for complete sampling sites results (treated waters and sludges included).

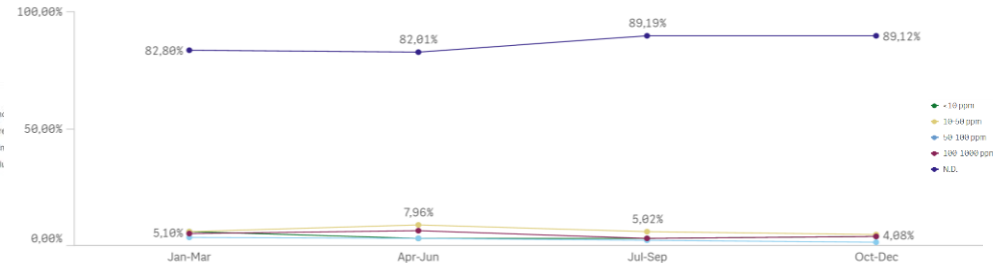
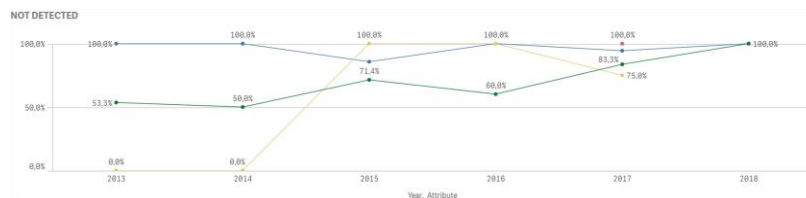
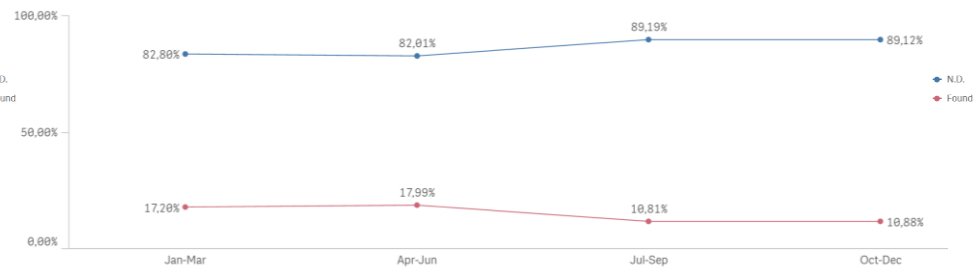
# Reporting – 2017 Focus on Substances Groups - APEOs

The trends of our testing campaigns on APEOs are shown below:

APEOs trend in Waters



APEOs trend in Articles\*



Valentino eliminated the use of APEOs. The graphs above show a clear APEOs reduction trend in both waters and articles, where APEOs are only found in traces due to contaminations (higher traces are mostly found in recycled materials).

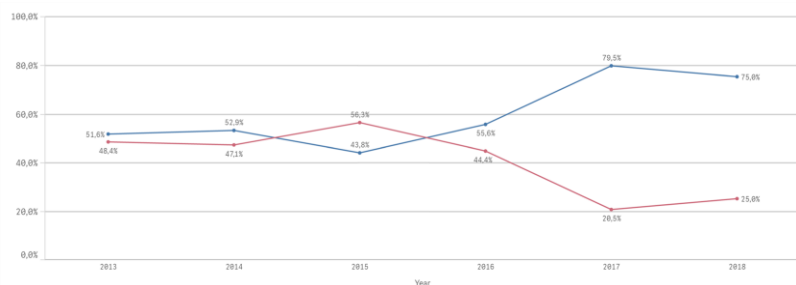
\* >1700 tests performed on APEOs Group

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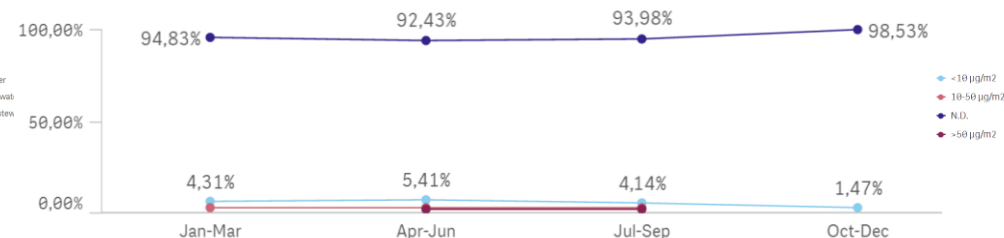
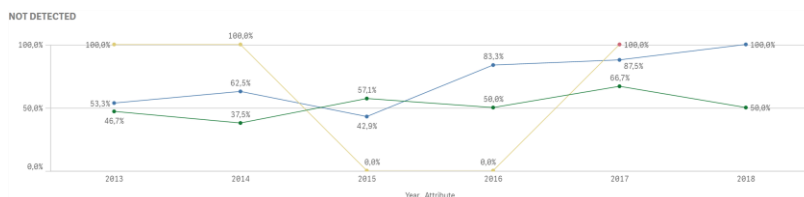
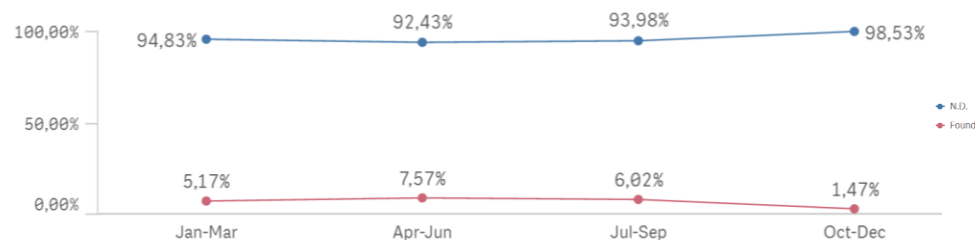
# Reporting – 2017 Focus on Substances Groups - PFCs

The trends of our testing campaigns on PFCs are shown below:

PFCs trend in Waters



PFCs trend in Articles\*



Valentino eliminated the use of PFCs. The graphs above show a clear PFCs reduction trend, in particular in articles. Considering also concentration ranges, PFCs are only found in traces ascribable to contaminations, even in incoming water.

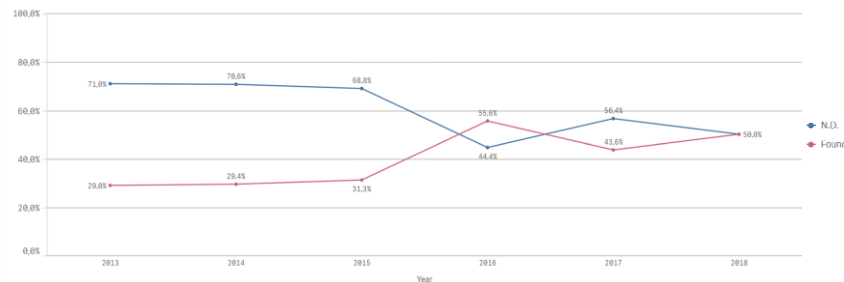
\* >900 tests performed on PFCs Group

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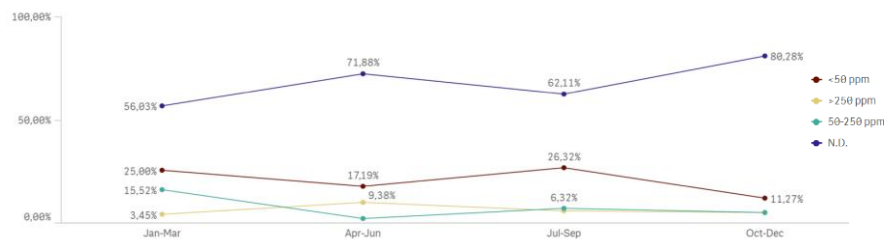
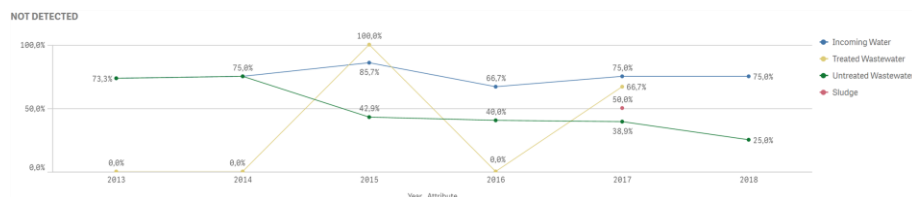
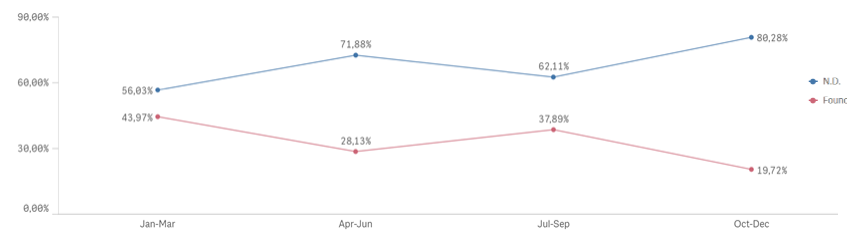
# Reporting – 2017 Focus on Substances Groups - Phthalates

The trends of our testing campaigns on Phthalates are shown below:

Phthalates trend in Waters



Phthalates trend in Articles



Valentino eliminated the use of Phthalates. Considering the concentration ranges, they are found as contaminants at very low concentrations, even in incoming waters.

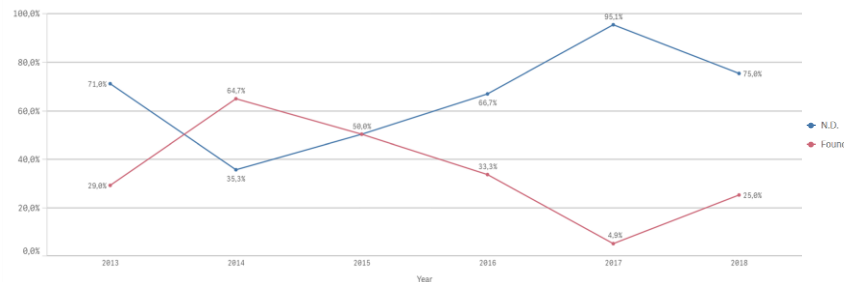
\* > 300 tests performed on Phthalates Group

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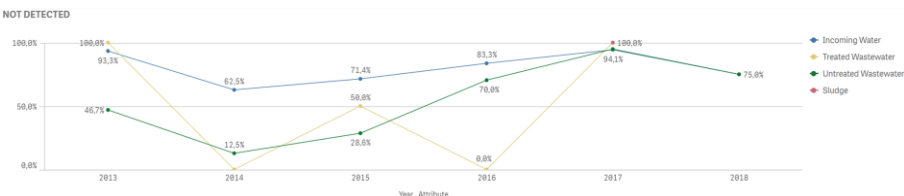
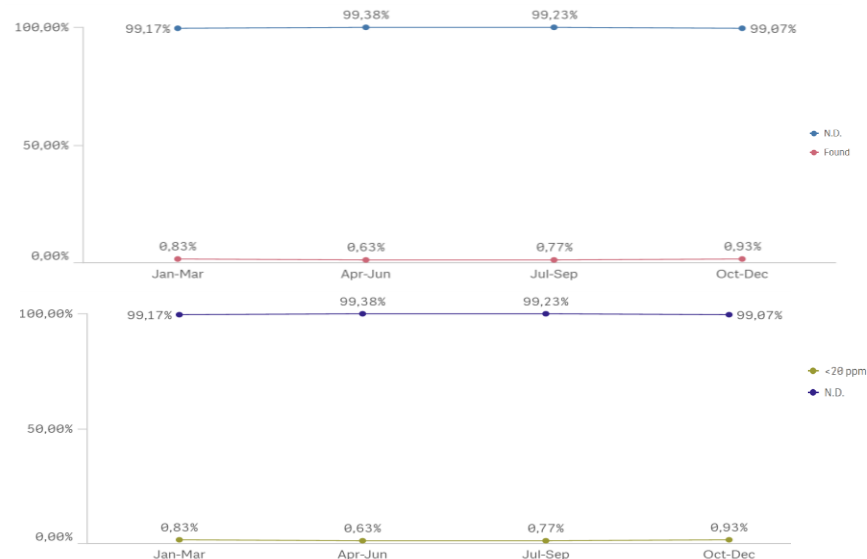
# Reporting – 2017 Focus on Substances Groups - Azo

The trends of our testing campaigns on Azo colourants are shown below:

Azo trend in Waters<sup>1</sup>



Azo trend in Articles



Valentino eliminated the use of Azo colourants. The graphs above show that no azo colourants are found in articles.

<sup>1</sup> – Azo test in waters includes aniline as analyte  
 \* >3800 tests performed on Azo Group



## Reporting – Conclusions

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Valentino eliminated the use of PFCs, Phthalates, APs/APEOs and Azo colourants. Since 2013, and as per its commitment, Valentino and its suppliers have identified their replacements and collaborated in developing substitution case studies and in looking for the root-cause of possible findings in different articles, as per the studies/investigations/updates published on our website (<https://www.valentino.com/experience/it/corporate-information/>). However, the complete elimination of these compounds, which are characterized by an intrinsic persistence in nature and are used in different fields that go beyond the textile industry or mere water-repellent treatments (e.g. PFCs), deserves deep thoughts and controls.

Trend data are published with absolute objectivity and transparency, and they are the result of the ongoing activities aiming at carefully controlling and monitoring the entire supply chain, making it aware of possible contaminations and informed of available alternatives. Possible residual problems are due to the fact that they can be found as contaminants in different kinds of formulations and materials and therefore in multiple processes. Due to a wide use of this substances in the past, they are still found in higher concentrations into recycled materials.

Therefore, the prohibition of use is to be followed by monitoring and control actions, through a careful and meticulous testing of chemical products, raw materials, finished garments, treatments, discharge waters and through environmental audits. The testing on articles must not be limited to specific treatments (e.g. PFCs in water-repellent materials), but must consider all kinds of processes and materials, such as other fabrics, leathers and different kinds of trims. Once the analytes under test are detected in the different matrixes analyzed, all suppliers are promptly notified and supported in order to identify the source and fix the problem.

To reduce these instances, we committed to specific training activities aiming at raising awareness among the suppliers on possible contaminations and on a clean factory approach. Suppliers that use, handle and transform materials and/or garments coming from various suppliers that are not committed to clean processes must pay attention to contaminations as well.

Possible problems to consider usually come from:

- The use of these chemicals in trims and articles that do not need them (e.g. water-repellent treatments or plasticizers)
- Absence of worldwide updated, targeted and uniform legislations
- Possible cross-contaminations in traces, even volatile (e.g. FTOH), from chemicals, materials and environment
- Undeclared low concentrations in chemicals (Please also see the chemicals tests and case studies on our website and: [https://www.confindustriatoscananord.it/media/DETOX/Buzzi\\_CID\\_presentazione\\_studio\\_coloranti\\_ITA\\_fase2\\_Public.pdf](https://www.confindustriatoscananord.it/media/DETOX/Buzzi_CID_presentazione_studio_coloranti_ITA_fase2_Public.pdf), [https://www.confindustriatoscananord.it/media/DETOX/Buzzi\\_CID\\_presentazione\\_studio\\_oleanti\\_filatura\\_ITA\\_Public.pdf](https://www.confindustriatoscananord.it/media/DETOX/Buzzi_CID_presentazione_studio_oleanti_filatura_ITA_Public.pdf))
- The use of recycled materials produced in the past with different requirements and that at the moment cannot meet Detox parameters
- Possible presence in incoming waters. (please also see our website and <http://www.arpa.veneto.it/arpav/pagine-generiche/sostanze-perfluoro-alchiliche-pfas>)

## Next Steps

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We'll keep on focusing on the following activities:

- enlarge the number of monitored/reported groups
- support and monitor the supply-chain
- work on even more precise and useful tools and database
- work with the the whole industry to find alternatives for the full set of Detox substances
- interact with all stakeholders.