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SFR-113/20

# Status of Corrective Action at Petroleum-contaminated Sites



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Prepared by  
Remediation Division

SFR-113/20  
November 2020

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## Purpose of This Report

This report was prepared for the Texas Legislature by the TCEQ as required by the Texas Water Code (TWC), Section 26.35745, as amended in the 83rd Texas Legislative Session. The statute requires an update on the status of sites managed by the TCEQ's Petroleum Storage Tank (PST) State-Lead Program on or before Nov. 1 of each year.

TCEQ provides the status of sites based on the date that the release of a regulated substance from a PST was reported to the TCEQ. This is done in accordance with the statute. For sites where the release was reported on or before Dec. 22, 1998, the report includes the:

- Number of sites.
- Number of sites for which corrective action is ongoing.
- Number of sites being monitored.
- Projected costs of the corrective action and monitoring.
- Projected timeline for issuing closure letters.
- Corrective action activities proposed and completed during the preceding state fiscal year.

For sites with releases reported after Dec. 22, 1998, the report includes the:

- Current status of each site.
- Costs associated with the corrective action activities performed during the preceding state fiscal year.
- Amount of cost recovery and enforcement actions taken against owners and operators related to the sites.

The statute also requires the TCEQ to investigate the amount of fees necessary to cover the costs to conclude the programs and activities before Sept. 1, 2021, and to include in the annual report conclusions and recommendations regarding the fees, programs, and activities.

## Background on the Petroleum Storage Tank Program

The Petroleum Storage Tank Program (PST Program) was established in TWC, Chapter 26, Subchapter I, in 1987. The statute authorized the TCEQ to develop and administer a comprehensive regulatory program for underground storage tanks. The PST Program addresses requirements applicable to non-exempt underground and aboveground storage tank owners and operators concerning leak detection, record keeping, reporting, corrective action, closure, and financial responsibility.

Tank owners and operators are required to address releases from a leaking PST (LPST). The PST Program oversees the assessment and cleanup of LPSTs. The program is required by statute to use a risk-based approach to address releases at each LPST site. The risk-based corrective action approach determines the type and degree of any necessary remediation at contaminated sites.

In 1989, House Bill 1588 (Acts of 1989, 71st Leg., R.S., Ch. 228, §16, 1006, 1989 Tex. Sess. Law Serv. 1005, 1015) established the Petroleum Storage Tank Remediation (PSTR) Account, which established a bulk-delivery fee to finance the PST Program, and provided reimbursement to eligible owners/operators for expenses associated with the cleanup of releases reported to the TCEQ on or before Dec. 22, 1998. Eligible parties of reimbursement sites that had not been cleaned up by July 1, 2011, could apply to have their sites placed in the State-Lead Program. As a result, over 300 reimbursement-eligible sites were transferred to the State-Lead Program. The reimbursement program expired on Sept. 1, 2012.

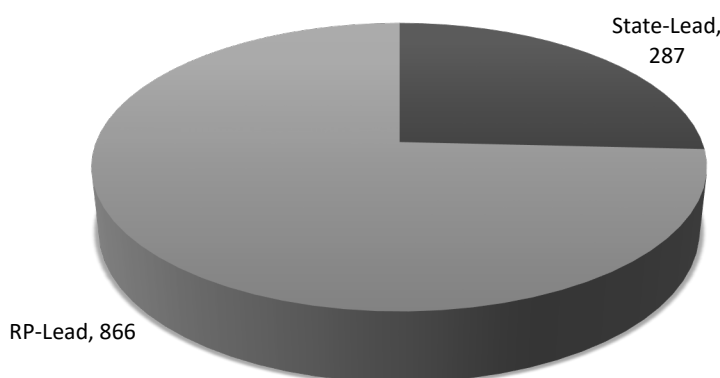
Corrective action activities at sites where releases are discovered and reported after Dec. 22, 1998, are to be funded by the owners/operators through environmental liability insurance, other financial assurance mechanisms, or from their own funds.

In addition to those eligible reimbursement sites transferred to State Lead, the statute (TWC 26.351(c)) authorizes the State-Lead Program to remediate releases from petroleum storage tanks if the tank owner or operator is: 1) unwilling to take corrective action, 2) cannot be found, 3) is unable to take corrective action; or 4) when a more expeditious action is necessary to protect human health and the environment. The State-Lead Program employs state contractors to complete the necessary corrective actions at these sites.

## PST Cleanup Program Overview

Since the program's inception, 28,488 releases have been reported. Cleanup has been completed at 27,335 sites. As of Sept. 1, 2020, there are 1,153 sites remaining that need corrective action. As depicted in Figure 1, there are 866 sites that responsible parties are addressing and 287 sites that the TCEQ's State-Lead Program is addressing. The 287 sites in the State-Lead Program include those reimbursement-eligible sites that were transferred to the State-Lead Program by the July 1, 2011, deadline.

**Figure 1: Sites in the PST program**





## State-Lead Clean Up Activities

The PST State-Lead Program prioritizes and ranks sites each year to ensure that corrective action activities are properly funded at sites that pose greater risk to human health and the environment. For this report, sites still needing corrective action are grouped by the date the release was reported (releases reported on or before Dec. 22, 1998, and releases reported after Dec. 22, 1998). Further discussion on the status and specific information for these groups of sites as outlined in the statute is provided in the following sections.

### Releases Reported on or Before Dec. 22, 1998

In FY 2020, risk-based corrective action activities were conducted at 201 sites with releases reported before Dec. 22, 1998. The program is required by statute to use a risk-based approach to address releases at LPST sites. As defined in rule (30 TAC 334.2(97)), risk-based corrective action refers to a case-by-case consideration of the actual or reasonable potential for public and environmental exposure to contaminants in the determination of the timing, type, and degree of site remediation. A risk-based corrective action approach to site remediation provides for appropriate action throughout the corrective action process depending on known or anticipated risks to human health and the environment. The corrective action process usually includes: risk-based site assessment, monitoring, active or passive remediation, and site closure. Risk-based corrective action activities for this report are grouped into monitoring and corrective action. These terms are defined in this report as:

- Monitoring - includes sites where assessment, groundwater monitoring, and or removal of non-aqueous phase liquid is needed.
- Corrective action - includes those sites where active remediation through the installation, operation and maintenance of remediation systems is the most cost effective and feasible approach to achieving cleanup standards.

Appendix A provides a breakdown of each site including the proposed activity, and the activity completed during FY 2020. In addition, Table 1 provides a breakdown of the phase of cleanup of the 187 remaining sites, and the projected costs and timeline for closure of these sites.

**Table 1. Status of Dec. 22, 1998 or earlier remaining releases**

| Phase of Cleanup  | Number of Sites | Projected Costs * | Projected Timeline to Closure ** |
|-------------------|-----------------|-------------------|----------------------------------|
| Monitoring        | 162             | \$7.3M- \$10.3M   | 2 - 5 years                      |
| Corrective Action | 25              | \$4.6M- \$6.8M    | 4 - 5 years                      |

\*Projected Costs for monitoring and corrective action was estimated using average yearly costs and estimated time remaining until closure for each site.

\*\*Projected Timeline estimated ranges are based on program averages and take into account extent and degree of impact, and degree of remediation needed. These estimates assume

adequate funding to move the site towards closure. However, corrective actions may be delayed at a certain number of sites in order to address other high priority sites as necessary.

## **Releases Reported After Dec. 22, 1998**

As of Sept. 1, 2020, there are 100 sites being addressed by the State-Lead Program with releases reported after Dec. 22, 1998. Appendix B contains a list of these sites, their status, and the cost associated with cleanup activities conducted during FY 2020.

The State-Lead Program may take over corrective action at sites where the owner or operator (responsible party) is unwilling. As provided in statute, the TCEQ may seek cost recovery for expenses incurred at these sites. Most sites being addressed by the State-Lead Program are those where the responsible parties are either financially unable or cannot be found. Cost recovery is not feasible under these circumstances. During FY 2020 no enforcement actions were taken against any of the state-lead sites.

The State may also conduct emergency actions at certain sites in order to mitigate immediate threats to human health and safety (e.g., explosive conditions, surface water impacts, vapor impact to buildings, etc.). The TCEQ then seeks viable owners/operators to recover the amounts expended to address those emergency actions. During FY 2020, four emergency actions were completed and cost recovery options are being evaluated.

## **Funding the PSTR Account**

The PSTR Account is supported by a fee assessed from the delivery of petroleum products removed from a bulk storage facility for distribution or sale within the state. Appropriations from the PSTR Account as well as Federal grants support the PST Program (administration of the overall program and cleanups conducted by the state).

In 2011, House Bill 2694 (Acts of 2011, 82nd Leg., R.S., Ch. 1021, §4.21, 2011 Tex. Sess. Law Serv. 2589) set maximum fee rates and required the TCEQ to set the fee rates not to exceed the amount necessary to cover the amounts appropriated by the Legislature for the administration of the PST Program, while allowing the fee to be adjusted on an on-going basis. As a result, the TCEQ amended its rule on April 19, 2012, and reduced the fee by 27% to secure sufficient revenue to support current appropriations. In 2015, House Bill 7 (Act of May 29, 2015, 84th Leg., R.S., Ch. 448, §44, 2015 Tex. Gen. Laws 1, 43) amended the maximum fee rate to the amount necessary to cover the amounts appropriated by the Legislature for the administration of the PST Program not including any amount appropriated for the purpose of the monitoring or remediation of releases occurring on or before Dec. 22, 1998. As a result, the fee rate was reduced by 37%. The estimated fee revenue for the 2020-2021 biennium is approximately \$32,409,839. This amount is to provide support for the TCEQ PST Program, which includes regulatory aspects (such as registration, inspection, enforcement) and cleanups (oversight of responsible party-lead and State-Lead Program cleanups for sites with releases reported after Dec. 22, 1998).

The TCEQ evaluated the cost to complete corrective action activities at those remaining sites where releases were reported on or before Dec. 22, 1998, in order to bring them

towards closure in a cost effective and timely manner before Sept. 1, 2021, as required by statute (TWC 26.35745(d)). Based on historical closure rates, and as shown in Table 1, the estimated timeframes for necessary corrective actions to be completed at some sites may exceed this date, at a minimum approximate cost of \$11,900,000. While this finite number of sites will continue to decrease as corrective actions are completed and sites are closed, the PST Program will still need to continue to address the remaining and future sites where the responsible parties are financially unable, unwilling, cannot be found, or in situations where more expeditious action is necessary to protect human health and the environment. An average of 259 new releases are reported to the TCEQ each year, and approximately 27 sites are entered into the State-Lead Program to complete the necessary corrective actions.

## **Conclusion**

The TCEQ has evaluated the PST Program needs and recommends the following:

1. Continued implementation of the new fee rate through the next biennium;
2. In FY 2020, risk-based corrective action activities were conducted on 97% of the sites with releases reported on or before Dec. 22, 1998 and 13 of these sites were successfully closed. TCEQ will continue to focus resources on these sites to bring the majority towards closure by Sept. 1, 2021, while ensuring that high-risk priority sites are appropriately addressed; and
3. Continued support of the PST State-Lead Program past Sept. 1, 2021, to ensure protection of human health and the environment in situations where new releases occur, and the responsible parties are unwilling, cannot be found, are financially unable, or where more expeditious action is necessary.



## Appendix A: Proposed and Completed Activities at State-Lead Sites with Releases Reported on or Before Dec. 22, 1998

Monitoring activities may include: site assessment, groundwater monitoring, product recovery, or all three activities.

Corrective action activities may include: installation, operation, and monitoring of engineered systems.

Site Restoration activities may include: plugging and abandoning monitor wells, removal of engineered systems, or other activities completed once a site has received No Further Action status.

Monitoring, Corrective action, or Site Restoration completed activities reflect those performed in Fiscal Year 2020 based on risk, priority, rank, and funding availability.

“Referred” designates sites where corrective action is being addressed in other TCEQ programs (e.g., sites where the contamination is commingled with non-PST regulated substances).

“Closure” refers to sites where a No Further Action Letter was issued during FY 2020.

“Previously Closed” refers to sites where a No Further Action Letter was issued prior to FY 2020.

“Cross-Referenced” refers to sites where cleanup activities are being performed under another LPST number.

Sites with bold font are sites with releases reported on or before Dec. 22, 1998, that were added after Sept. 1, 2013. New sites may be added as a result of database corrections or new State Lead referrals.

**Table 2. Proposed and completed activities at State-Lead sites with releases reported on or before Dec. 22, 1998**

| LPST ID      | Proposed Activity | Completed Activity |
|--------------|-------------------|--------------------|
| <b>91130</b> | Monitoring        | Monitoring         |
| <b>91215</b> | Previously Closed | Site Restoration   |
| 91258        | Monitoring        | Monitoring         |
| 91399        | Monitoring        | -                  |
| 91442        | Monitoring        | Monitoring         |
| 91492        | Previously Closed | Previously Closed  |

| <b>LPST ID</b> | <b>Proposed Activity</b> | <b>Completed Activity</b> |
|----------------|--------------------------|---------------------------|
| 91530          | Previously Closed        | Previously Closed         |
| 91586          | Previously Closed        | Previously Closed         |
| 91598          | Closure                  | Site Restoration          |
| 91633          | Previously Closed        | Previously Closed         |
| 91686          | Monitoring               | Monitoring                |
| 91745          | Monitoring               | Monitoring                |
| 91815          | Previously Closed        | Previously Closed         |
| 91849          | Previously Closed        | Site Restoration          |
| 91859          | Previously Closed        | Previously Closed         |
| 91958          | Monitoring               | Monitoring                |
| 91966          | Monitoring               | Monitoring                |
| 92044          | Monitoring               | Monitoring                |
| 92064          | Previously Closed        | Previously Closed         |
| 92066          | Monitoring               | Monitoring                |
| <b>92112</b>   | Monitoring               | Monitoring                |
| <b>92126</b>   | Previously Closed        | Previously Closed         |
| 92213          | Monitoring               | Monitoring                |
| 92225          | Previously Closed        | Previously Closed         |
| <b>92298</b>   | Previously Closed        | Previously Closed         |
| <b>92299</b>   | Monitoring               | Monitoring                |
| 92373          | Previously Closed        | Previously Closed         |
| 92401          | Previously Closed        | Previously Closed         |
| 92553          | Corrective Action        | Corrective Action         |
| 92663          | Monitoring               | Monitoring                |

| <b>LPST ID</b> | <b>Proposed Activity</b> | <b>Completed Activity</b> |
|----------------|--------------------------|---------------------------|
| 92693          | Previously Closed        | Previously Closed         |
| 92730          | Previously Closed        | Previously Closed         |
| 92765          | Monitoring               | Monitoring                |
| 92767          | Previously Closed        | Previously Closed         |
| 92823          | Corrective Action        | Corrective Action         |
| 92877          | Previously Closed        | Previously Closed         |
| 93040          | Corrective Action        | Corrective Action         |
| <b>93149</b>   | Previously Closed        | Previously Closed         |
| 93156          | Previously Closed        | Previously Closed         |
| 93181          | Monitoring               | Monitoring                |
| <b>93321</b>   | Monitoring               | Monitoring                |
| 93354          | Monitoring               | Monitoring                |
| <b>93384</b>   | Monitoring               | -                         |
| 93386          | Monitoring               | Monitoring                |
| 93525          | Previously Closed        | Previously Closed         |
| 93559          | Previously Closed        | Previously Closed         |
| 93576          | Previously Closed        | Previously Closed         |
| 93591          | Monitoring               | Monitoring                |
| 93593          | Previously Closed        | Previously Closed         |
| 93600          | Previously Closed        | Previously Closed         |
| 93636          | Monitoring               | Monitoring                |
| <b>93680</b>   | Monitoring               | Monitoring                |
| 93681          | Monitoring               | Monitoring                |
| 93785          | Previously Closed        | Previously Closed         |

| <b>LPST ID</b> | <b>Proposed Activity</b> | <b>Completed Activity</b> |
|----------------|--------------------------|---------------------------|
| 93850          | Monitoring               | Monitoring                |
| 93931          | Monitoring               | Monitoring                |
| 93980          | Previously Closed        | Previously Closed         |
| 93997          | Monitoring               | Monitoring                |
| 93999          | Previously Closed        | Previously Closed         |
| 94099          | Previously Closed        | Site Restoration          |
| 94199          | Previously Closed        | Previously Closed         |
| 94301          | Monitoring               | Monitoring                |
| 94305          | Monitoring               | Monitoring                |
| 94335          | Previously Closed        | Previously Closed         |
| 94390          | Corrective Action        | Corrective Action         |
| 94412          | Monitoring               | -                         |
| 94543          | Previously Closed        | Previously Closed         |
| 94560          | Previously Closed        | Previously Closed         |
| 94567          | Monitoring               | Monitoring                |
| 94571          | Previously Closed        | Previously Closed         |
| 94599          | Previously Closed        | Previously Closed         |
| 94802          | Monitoring               | Monitoring                |
| 94909          | Previously Closed        | Previously Closed         |
| <b>95018</b>   | Previously Closed        | Previously Closed         |
| 95059          | Previously Closed        | Previously Closed         |
| 95179          | Previously Closed        | Previously Closed         |
| 95196          | Previously Closed        | Previously Closed         |
| 95334          | Monitoring               | Monitoring                |



| <b>LPST ID</b> | <b>Proposed Activity</b> | <b>Completed Activity</b> |
|----------------|--------------------------|---------------------------|
| 95341          | Monitoring               | Monitoring                |
| <b>95579</b>   | Previously Closed        | Site Restoration          |
| 95591          | Monitoring               | Monitoring                |
| <b>95599</b>   | Previously Closed        | Previously Closed         |
| <b>95687</b>   | Monitoring               | Monitoring                |
| 95700          | Previously Closed        | Previously Closed         |
| 95834          | Corrective Action        | Corrective Action         |
| 96065          | Previously Closed        | Previously Closed         |
| 96161          | Monitoring               | Monitoring                |
| 96276          | Previously Closed        | Previously Closed         |
| 96283          | Monitoring               | Monitoring                |
| 96295          | Monitoring               | Monitoring                |
| 96331          | Corrective Action        | Corrective Action         |
| 96382          | Closure                  | Site Restoration          |
| 96418          | Previously Closed        | Previously Closed         |
| 96574          | Previously Closed        | Previously Closed         |
| 96580          | Previously Closed        | Previously Closed         |
| 96683          | Corrective Action        | Corrective Action         |
| 96883          | Monitoring               | Monitoring                |
| 96902          | Corrective Action        | Corrective Action         |
| <b>96922</b>   | Monitoring               | Monitoring                |
| 96931          | Monitoring               | Monitoring                |
| <b>96993</b>   | Monitoring               | Monitoring                |
| <b>97146</b>   | Monitoring               | Monitoring                |

| <b>LPST ID</b> | <b>Proposed Activity</b> | <b>Completed Activity</b> |
|----------------|--------------------------|---------------------------|
| 97200          | Monitoring               | Monitoring                |
| 97222          | Previously Closed        | Previously Closed         |
| 97320          | Monitoring               | Monitoring                |
| 97352          | Monitoring               | Monitoring                |
| 97410          | Monitoring               | Monitoring                |
| 97413          | Previously Closed        | Previously Closed         |
| 97453          | Corrective Action        | Corrective Action         |
| 97529          | Previously Closed        | Previously Closed         |
| 97597          | Previously Closed        | Previously Closed         |
| 97616          | Monitoring               | Monitoring                |
| 97733          | Corrective Action        | Corrective Action         |
| 97758          | Monitoring               | Monitoring                |
| 97962          | Previously Closed        | Site Restoration          |
| 97992          | Monitoring               | Monitoring                |
| 98042          | Previously Closed        | Previously Closed         |
| 98301          | Previously Closed        | Previously Closed         |
| 98311          | Previously Closed        | Previously Closed         |
| 98334          | Corrective Action        | Corrective Action         |
| 98523          | Monitoring               | Monitoring                |
| 98621          | Previously Closed        | Previously Closed         |
| 98708          | Monitoring               | Monitoring                |
| 98731          | Previously Closed        | Previously Closed         |
| 98752          | Previously Closed        | Previously Closed         |
| 98837          | Monitoring               | Monitoring                |

| <b>LPST ID</b> | <b>Proposed Activity</b> | <b>Completed Activity</b> |
|----------------|--------------------------|---------------------------|
| 98876          | Monitoring               | Monitoring                |
| 98901          | Previously Closed        | Previously Closed         |
| 98952          | Referred                 | Referred                  |
| 99251          | Previously Closed        | Previously Closed         |
| 99256          | Previously Closed        | Previously Closed         |
| 99304          | Monitoring               | Monitoring                |
| 99338          | Monitoring               | Monitoring                |
| 99363          | Previously Closed        | Previously Closed         |
| 99373          | Previously Closed        | Previously Closed         |
| 99374          | Corrective Action        | Corrective Action         |
| 99483          | Previously Closed        | Previously Closed         |
| 99686          | Corrective Action        | Corrective Action         |
| 99780          | Previously Closed        | Previously Closed         |
| <b>99841</b>   | Monitoring               | Monitoring                |
| 99894          | Corrective Action        | Corrective Action         |
| <b>99910</b>   | Previously Closed        | Previously Closed         |
| 99916          | Previously Closed        | Previously Closed         |
| 99919          | Previously Closed        | Previously Closed         |
| 100105         | Previously Closed        | Previously Closed         |
| 100127         | Corrective Action        | Corrective Action         |
| 100194         | Monitoring               | Monitoring                |
| <b>100254</b>  | Previously Closed        | Previously Closed         |
| 100260         | Monitoring               | Monitoring                |
| <b>100586</b>  | Monitoring               | Monitoring                |

| <b>LPST ID</b> | <b>Proposed Activity</b> | <b>Completed Activity</b> |
|----------------|--------------------------|---------------------------|
| 100668         | Previously Closed        | Previously Closed         |
| 100826         | Closure                  | Site Restoration          |
| <b>100894</b>  | Closure                  | Site Restoration          |
| 100937         | Previously Closed        | Previously Closed         |
| 101050         | Previously Closed        | Previously Closed         |
| <b>101268</b>  | Monitoring               | Monitoring                |
| 101301         | Previously Closed        | Previously Closed         |
| 101339         | Previously Closed        | Previously Closed         |
| 101749         | Monitoring               | Monitoring                |
| 101820         | Monitoring               | Monitoring                |
| 101842         | Previously Closed        | Previously Closed         |
| 102202         | Corrective Action        | Corrective Action         |
| <b>102331</b>  | Previously Closed        | Previously Closed         |
| 102425         | Monitoring               | Monitoring                |
| 102448         | Previously Closed        | Previously Closed         |
| <b>102616</b>  | Monitoring               | Monitoring                |
| <b>102950</b>  | Monitoring               | Monitoring                |
| 102959         | Previously Closed        | Previously Closed         |
| 102977         | Monitoring               | Monitoring                |
| <b>103038</b>  | Monitoring               | Monitoring                |
| 103061         | Previously Closed        | Previously Closed         |
| <b>103126</b>  | Previously Closed        | Previously Closed         |
| <b>103161</b>  | Previously Closed        | Previously Closed         |
| 103223         | Monitoring               | Monitoring                |

| <b>LPST ID</b> | <b>Proposed Activity</b> | <b>Completed Activity</b> |
|----------------|--------------------------|---------------------------|
| <b>103228</b>  | Monitoring               | Monitoring                |
| 103338         | Previously Closed        | Previously Closed         |
| 103399         | Corrective Action        | Corrective Action         |
| 103497         | Previously Closed        | Previously Closed         |
| 103521         | Previously Closed        | Previously Closed         |
| 103842         | Monitoring               | Monitoring                |
| 103861         | Previously Closed        | Previously Closed         |
| <b>104098</b>  | Previously Closed        | Previously Closed         |
| 104158         | Monitoring               | Monitoring                |
| 104472         | Monitoring               | Monitoring                |
| 104481         | Previously Closed        | Previously Closed         |
| 104483         | Monitoring               | Monitoring                |
| 104670         | Monitoring               | Monitoring                |
| <b>104938</b>  | Previously Closed        | Previously Closed         |
| 105059         | Monitoring               | Monitoring                |
| 105405         | Previously Closed        | Previously Closed         |
| 105472         | Previously Closed        | Previously Closed         |
| 105652         | Previously Closed        | Previously Closed         |
| 105734         | Previously Closed        | Previously Closed         |
| 105966         | Previously Closed        | Previously Closed         |
| <b>106300</b>  | Closure                  | Closure                   |
| 106337         | Previously Closed        | Previously Closed         |
| <b>106346</b>  | Previously Closed        | Previously Closed         |
| 106368         | Monitoring               | Monitoring                |

| <b>LPST ID</b> | <b>Proposed Activity</b> | <b>Completed Activity</b> |
|----------------|--------------------------|---------------------------|
| 106435         | Previously Closed        | Previously Closed         |
| <b>106458</b>  | Monitoring               | Monitoring                |
| 106595         | Previously Closed        | Previously Closed         |
| 106639         | Previously Closed        | Previously Closed         |
| 106747         | Previously Closed        | Previously Closed         |
| 106794         | Previously Closed        | Previously Closed         |
| 106798         | Monitoring               | Monitoring                |
| 106831         | Previously Closed        | Previously Closed         |
| 106930         | Previously Closed        | Previously Closed         |
| 106989         | Monitoring               | Monitoring                |
| 107025         | Previously Closed        | Previously Closed         |
| 107058         | Monitoring               | Monitoring                |
| 107118         | Previously Closed        | Previously Closed         |
| 107270         | Previously Closed        | Previously Closed         |
| 107447         | Previously Closed        | Previously Closed         |
| 107475         | Monitoring               | Monitoring                |
| 107481         | Previously Closed        | Previously Closed         |
| <b>107511</b>  | Monitoring               | Monitoring                |
| 107671         | Previously Closed        | Previously Closed         |
| 107883         | Previously Closed        | Previously Closed         |
| 107932         | Previously Closed        | Previously Closed         |
| 108207         | Monitoring               | Monitoring                |
| <b>108258</b>  | Monitoring               | Monitoring                |
| 108399         | Monitoring               | Monitoring                |

| <b>LPST ID</b> | <b>Proposed Activity</b> | <b>Completed Activity</b> |
|----------------|--------------------------|---------------------------|
| <b>108528</b>  | Previously Closed        | Previously Closed         |
| 108640         | Previously Closed        | Previously Closed         |
| 108723         | Monitoring               | Monitoring                |
| 108725         | Monitoring               | Monitoring                |
| 108762         | Previously Closed        | Previously Closed         |
| 108903         | Previously Closed        | Previously Closed         |
| <b>109092</b>  | Previously Closed        | Previously Closed         |
| 109094         | Previously Closed        | Previously Closed         |
| 109128         | Previously Closed        | Previously Closed         |
| 109150         | Monitoring               | Monitoring                |
| 109268         | Monitoring               | Monitoring                |
| 109297         | Previously Closed        | Previously Closed         |
| 109426         | Monitoring               | Monitoring                |
| 109483         | Previously Closed        | Previously Closed         |
| 109493         | Monitoring               | Monitoring                |
| 109518         | Previously Closed        | Previously Closed         |
| 109520         | Monitoring               | Monitoring                |
| 109616         | Previously Closed        | Previously Closed         |
| 109701         | Previously Closed        | Previously Closed         |
| 109768         | Previously Closed        | Previously Closed         |
| 109780         | Monitoring               | Monitoring                |
| 109795         | Previously Closed        | Previously Closed         |
| 109901         | Previously Closed        | Previously Closed         |
| <b>109954</b>  | Monitoring               | Monitoring                |

| <b>LPST ID</b> | <b>Proposed Activity</b> | <b>Completed Activity</b> |
|----------------|--------------------------|---------------------------|
| 109994         | Previously Closed        | Previously Closed         |
| <b>110076</b>  | Monitoring               | Monitoring                |
| 110101         | Corrective Action        | Corrective Action         |
| 110112         | Previously Closed        | Previously Closed         |
| 110157         | Previously Closed        | Previously Closed         |
| 110182         | Monitoring               | Monitoring                |
| 110293         | Previously Closed        | Previously Closed         |
| 110529         | Referred                 | Referred                  |
| 110583         | Previously Closed        | Previously Closed         |
| <b>110644</b>  | Previously Closed        | Previously Closed         |
| 110715         | Previously Closed        | Previously Closed         |
| 110748         | Previously Closed        | Previously Closed         |
| 110752         | Previously Closed        | Previously Closed         |
| 110761         | Closure                  | Site Restoration          |
| 110827         | Previously Closed        | Site Restoration          |
| 110863         | Monitoring               | Monitoring                |
| 110920         | Monitoring               | Monitoring                |
| 110951         | Monitoring               | Monitoring                |
| 110981         | Previously Closed        | Previously Closed         |
| <b>111060</b>  | Previously Closed        | Previously Closed         |
| 111073         | Closure                  | Site Restoration          |
| <b>111241</b>  | Previously Closed        | Previously Closed         |
| 111264         | Monitoring               | Monitoring                |
| 111306         | Previously Closed        | Previously Closed         |



| <b>LPST ID</b> | <b>Proposed Activity</b> | <b>Completed Activity</b> |
|----------------|--------------------------|---------------------------|
| 111346         | Previously Closed        | Previously Closed         |
| 111367         | Monitoring               | Monitoring                |
| 111372         | Previously Closed        | Previously Closed         |
| 111380         | Corrective Action        | Corrective Action         |
| 111431         | Monitoring               | Monitoring                |
| 111466         | Closure                  | Site Restoration          |
| 111469         | Previously Closed        | Previously Closed         |
| <b>111478</b>  | Monitoring               | Monitoring                |
| 111488         | Monitoring               | Monitoring                |
| 111499         | Monitoring               | Monitoring                |
| 111507         | Previously Closed        | Previously Closed         |
| 111525         | Previously Closed        | Previously Closed         |
| 111565         | Corrective Action        | Corrective Action         |
| 111587         | Monitoring               | Monitoring                |
| 111612         | Previously Closed        | Previously Closed         |
| 111615         | Monitoring               | Monitoring                |
| 111641         | Previously Closed        | Previously Closed         |
| 111669         | Monitoring               | Monitoring                |
| <b>111673</b>  | Monitoring               | Monitoring                |
| 111761         | Monitoring               | Monitoring                |
| 111775         | Closure                  | Site Restoration          |
| 111799         | Previously Closed        | Previously Closed         |
| 111830         | Previously Closed        | Previously Closed         |
| <b>111835</b>  | Previously Closed        | Previously Closed         |

| <b>LPST ID</b> | <b>Proposed Activity</b> | <b>Completed Activity</b> |
|----------------|--------------------------|---------------------------|
| 111856         | Previously Closed        | Previously Closed         |
| 111873         | Monitoring               | Monitoring                |
| 111925         | Previously Closed        | Previously Closed         |
| 111934         | Previously Closed        | Previously Closed         |
| <b>111950</b>  | Monitoring               | Monitoring                |
| 111963         | Previously Closed        | Previously Closed         |
| <b>112043</b>  | Monitoring               | -                         |
| <b>112053</b>  | Previously Closed        | Previously Closed         |
| 112118         | Previously Closed        | Previously Closed         |
| 112131         | Previously Closed        | Previously Closed         |
| 112145         | Previously Closed        | Previously Closed         |
| 112157         | Previously Closed        | Previously Closed         |
| 112159         | Monitoring               | Monitoring                |
| <b>112167</b>  | Corrective Action        | Corrective Action         |
| 112223         | Corrective Action        | Corrective Action         |
| 112242         | Monitoring               | Monitoring                |
| 112268         | Previously Closed        | Previously Closed         |
| <b>112296</b>  | Monitoring               | Monitoring                |
| 112333         | Monitoring               | Monitoring                |
| 112365         | Previously Closed        | Previously Closed         |
| 112428         | Monitoring               | Monitoring                |
| 112497         | Monitoring               | Monitoring                |
| 112525         | Previously Closed        | Previously Closed         |
| 112538         | Monitoring               | Monitoring                |

| <b>LPST ID</b> | <b>Proposed Activity</b> | <b>Completed Activity</b> |
|----------------|--------------------------|---------------------------|
| 112580         | Previously Closed        | Previously Closed         |
| 112586         | Previously Closed        | Previously Closed         |
| <b>112589</b>  | Monitoring               | Monitoring                |
| 112592         | Monitoring               | Monitoring                |
| 112602         | Previously Closed        | Previously Closed         |
| 112630         | Closure                  | Site Restoration          |
| 112643         | Previously Closed        | Previously Closed         |
| 112653         | Monitoring               | Monitoring                |
| 112654         | Previously Closed        | Previously Closed         |
| 112658         | Corrective Action        | Corrective Action         |
| 112659         | Previously Closed        | Previously Closed         |
| 112661         | Previously Closed        | Previously Closed         |
| 112665         | Previously Closed        | Previously Closed         |
| 112695         | Previously Closed        | Previously Closed         |
| 112698         | Previously Closed        | Previously Closed         |
| 112703         | Previously Closed        | Previously Closed         |
| <b>112728</b>  | Previously Closed        | Previously Closed         |
| 112781         | Previously Closed        | Previously Closed         |
| 112798         | Previously Closed        | Previously Closed         |
| 112816         | Monitoring               | Monitoring                |
| 112836         | Previously Closed        | Previously Closed         |
| 112847         | Previously Closed        | Previously Closed         |
| <b>112854</b>  | Monitoring               | Monitoring                |
| 112869         | Previously Closed        | Previously Closed         |

| <b>LPST ID</b> | <b>Proposed Activity</b> | <b>Completed Activity</b> |
|----------------|--------------------------|---------------------------|
| 112878         | Previously Closed        | Previously Closed         |
| 112913         | Monitoring               | Monitoring                |
| 112917         | Monitoring               | Monitoring                |
| 112919         | Monitoring               | Monitoring                |
| <b>112923</b>  | Monitoring               | Monitoring                |
| 112930         | Previously Closed        | Previously Closed         |
| 112932         | Monitoring               | Monitoring                |
| 112935         | Monitoring               | Monitoring                |
| 112943         | Previously Closed        | Previously Closed         |
| <b>112967</b>  | Previously Closed        | Previously Closed         |
| 112975         | Previously Closed        | Previously Closed         |
| <b>112984</b>  | Previously Closed        | Previously Closed         |
| 112993         | Previously Closed        | Previously Closed         |
| 113008         | Previously Closed        | Previously Closed         |
| 113045         | Previously Closed        | Previously Closed         |
| 113046         | Referred                 | Referred                  |
| 113055         | Previously Closed        | Previously Closed         |
| 113065         | Previously Closed        | Previously Closed         |
| 113096         | Corrective Action        | Corrective Action         |
| <b>113097</b>  | Monitoring               | Monitoring                |
| 113099         | Previously Closed        | Previously Closed         |
| 113102         | Monitoring               | Monitoring                |
| 113134         | Previously Closed        | Previously Closed         |
| 113154         | Previously Closed        | Previously Closed         |

| <b>LPST ID</b> | <b>Proposed Activity</b> | <b>Completed Activity</b> |
|----------------|--------------------------|---------------------------|
| 113162         | Previously Closed        | Previously Closed         |
| <b>113166</b>  | Monitoring               | -                         |
| 113170         | Monitoring               | Monitoring                |
| 113175         | Previously Closed        | Previously Closed         |
| 113176         | Previously Closed        | Previously Closed         |
| 113185         | Previously Closed        | Previously Closed         |
| 113186         | Previously Closed        | Previously Closed         |
| 113228         | Previously Closed        | Previously Closed         |
| 113232         | Monitoring               | Monitoring                |
| 113285         | Previously Closed        | Previously Closed         |
| <b>113307</b>  | Closure                  | Site Restoration          |
| 113324         | Monitoring               | Monitoring                |
| 113325         | Monitoring               | Monitoring                |
| <b>113326</b>  | Previously Closed        | Previously Closed         |
| <b>113329</b>  | Previously Closed        | Previously Closed         |
| 113332         | Previously Closed        | Previously Closed         |
| 113369         | Monitoring               | Monitoring                |
| 113397         | Previously Closed        | Previously Closed         |
| 113400         | Previously Closed        | Previously Closed         |
| 113401         | Corrective Action        | Corrective Action         |
| 113443         | Monitoring               | Monitoring                |
| 113452         | Monitoring               | Monitoring                |
| 113486         | Previously Closed        | Previously Closed         |
| 113509         | Monitoring               | Monitoring                |

| <b>LPST ID</b> | <b>Proposed Activity</b> | <b>Completed Activity</b> |
|----------------|--------------------------|---------------------------|
| <b>113514</b>  | Closure                  | Site Restoration          |
| <b>113535</b>  | Monitoring               | -                         |
| 113573         | Previously Closed        | Previously Closed         |
| 113587         | Monitoring               | Monitoring                |
| 113600         | Previously Closed        | Previously Closed         |
| <b>113627</b>  | Previously Closed        | Previously Closed         |
| 113648         | Previously Closed        | Site Restoration          |
| 113659         | Monitoring               | Monitoring                |
| 113671         | Previously Closed        | Previously Closed         |
| 113678         | Closure                  | Site Restoration          |
| 113729         | Monitoring               | Monitoring                |
| 113738         | Previously Closed        | Previously Closed         |
| <b>113832</b>  | Monitoring               | Monitoring                |
| 113837         | Monitoring               | Monitoring                |
| 113838         | Previously Closed        | Previously Closed         |
| 113893         | Monitoring               | Monitoring                |
| 113939         | Previously Closed        | Previously Closed         |
| 113973         | Monitoring               | Monitoring                |
| 113975         | Previously Closed        | Previously Closed         |
| 113981         | Previously Closed        | Previously Closed         |
| 113997         | Previously Closed        | Previously Closed         |
| 114046         | Previously Closed        | Previously Closed         |
| 114048         | Previously Closed        | Previously Closed         |
| 114052         | Previously Closed        | Previously Closed         |

| <b>LPST ID</b> | <b>Proposed Activity</b> | <b>Completed Activity</b> |
|----------------|--------------------------|---------------------------|
| <b>114062</b>  | Monitoring               | Monitoring                |
| 114072         | Previously Closed        | Previously Closed         |
| <b>114074</b>  | Monitoring               | Monitoring                |
| 114084         | Previously Closed        | Previously Closed         |
| 114085         | Previously Closed        | Previously Closed         |
| 114096         | Previously Closed        | Previously Closed         |
| 114106         | Monitoring               | Monitoring                |
| 114107         | Monitoring               | Monitoring                |
| 114108         | Previously Closed        | Previously Closed         |
| <b>114114</b>  | Monitoring               | Monitoring                |
| 114117         | Monitoring               | Monitoring                |
| 114122         | Previously Closed        | Previously Closed         |
| 114178         | Monitoring               | Monitoring                |
| 114199         | Previously Closed        | Previously Closed         |
| 114289         | Previously Closed        | Previously Closed         |
| <b>114340</b>  | Previously Closed        | Previously Closed         |
| <b>114372</b>  | Monitoring               | Monitoring                |
| <b>114425</b>  | Previously Closed        | Previously Closed         |
| 114535         | Previously Closed        | Previously Closed         |
| 114770         | Previously Closed        | Previously Closed         |
| 115278         | Previously Closed        | Previously Closed         |
| 115616         | Monitoring               | Monitoring                |
| 116114         | Previously Closed        | Previously Closed         |
| 117095         | Referred                 | Referred                  |

| <b>LPST ID</b> | <b>Proposed Activity</b> | <b>Completed Activity</b> |
|----------------|--------------------------|---------------------------|
| 117954         | Monitoring               | Monitoring                |
| <b>119489</b>  | Previously Closed        | Previously Closed         |



## Appendix B: Fiscal Year 2020 Current Status and Amounts Expended at State-Lead Sites with Releases Reported After Dec. 22, 1998

Monitoring status includes: site assessment, groundwater monitoring, product recovery, or all three activities.

Corrective Action status includes: installation, operation, maintenance of remediation systems, or all three activities.

Closed status: reflects sites where cleanup was completed during the fiscal year.

Cross-Referenced refers to sites where corrective action activities are being performed under another LPST number.

Expenditure amounts include State and Federal dollars.

**Table 3. Fiscal Year 2020 current status and amounts expended at State-Lead sites with releases reported after Dec. 22, 1998**

| LPST ID | Current Status | Amounts Expended in FY20 |
|---------|----------------|--------------------------|
| 114215  | Monitoring     | -                        |
| 114518  | Monitoring     | \$40,181.15              |
| 114532  | Monitoring     | -                        |
| 114569  | Monitoring     | \$34,315.02              |
| 114703  | Monitoring     | \$888.70                 |
| 114740  | Closed         | \$7,639.12               |
| 114745  | Closed         | \$9,969.33               |
| 114817  | Monitoring     | \$109,245.39             |
| 114858  | Monitoring     | \$13,633.00              |
| 114907  | Monitoring     | \$13,449.59              |
| 115080  | Monitoring     | \$31,108.63              |
| 115117  | Monitoring     | \$30,912.75              |

| <b>LPST ID</b> | <b>Current Status</b> | <b>Amounts Expended in FY20</b> |
|----------------|-----------------------|---------------------------------|
| 115152         | Monitoring            | \$75,276.00                     |
| 115169         | Monitoring            | \$23,518.64                     |
| 115170         | Monitoring            | \$83,652.47                     |
| 115258         | Monitoring            | \$7,263.93                      |
| 115473         | Monitoring            | \$16,314.55                     |
| 115551         | Monitoring            | \$96,940.79                     |
| 115574         | Monitoring            | Cross-Referenced                |
| 115605         | Monitoring            | \$9,533.00                      |
| 115625         | Monitoring            | \$22,508.75                     |
| 115712         | Monitoring            | Cross-Referenced                |
| 115771         | Monitoring            | \$96,468.48                     |
| 115858         | Closed                | \$2,838.98                      |
| 115928         | Monitoring            | \$14,624.82                     |
| 115929         | Corrective Action     | \$185,525.13                    |
| 115964         | Monitoring            | \$39,500.56                     |
| 116077         | Monitoring            | Cross-Referenced                |
| 116186         | Monitoring            | \$54,398.33                     |
| 116199         | Monitoring            | \$27,395.15                     |
| 116213         | Closed                | \$6,006.00                      |
| 116366         | Monitoring            | \$2,848.40                      |
| 116462         | Monitoring            | \$26,749.00                     |
| 116502         | Monitoring            | \$58,367.93                     |
| 116535         | Monitoring            | \$22,208.00                     |

| <b>LPST ID</b> | <b>Current Status</b> | <b>Amounts Expended in FY20</b> |
|----------------|-----------------------|---------------------------------|
| 116561         | Monitoring            | Cross-Referenced                |
| 116639         | Monitoring            | \$16,556.97                     |
| 116679         | Monitoring            | \$20,550.39                     |
| 116790         | Monitoring            | \$14,457.16                     |
| 117040         | Monitoring            | \$1,567.85                      |
| 117058         | Monitoring            | \$15,085.32                     |
| 117108         | Monitoring            | \$14,231.85                     |
| 117170         | Monitoring            | Cross-Referenced                |
| 117177         | Monitoring            | \$15,534.94                     |
| 117220         | Monitoring            | \$21,063.00                     |
| 117244         | Monitoring            | \$33,853.14                     |
| 117336         | Monitoring            | \$24,162.80                     |
| 117522         | Monitoring            | -                               |
| 117591         | Monitoring            | \$8,637.03                      |
| 117720         | Monitoring            | \$1,532.15                      |
| 117775         | Monitoring            | \$6,919.20                      |
| 117829         | Monitoring            | \$16,963.77                     |
| 117987         | Monitoring            | \$62,176.45                     |
| 118052         | Corrective Action     | \$55,829.54                     |
| 118137         | Closed                | \$9,821.40                      |
| 118218         | Monitoring            | \$29,091.95                     |
| 118220         | Monitoring            | \$48,814.40                     |
| 118252         | Monitoring            | \$231,542.13                    |

| <b>LPST ID</b> | <b>Current Status</b> | <b>Amounts Expended in FY20</b> |
|----------------|-----------------------|---------------------------------|
| 118274         | Monitoring            | \$11,856.86                     |
| 118329         | Monitoring            | \$24,590.78                     |
| 118365         | Monitoring            | \$51,985.60                     |
| 118373         | Monitoring            | Cross-Referenced                |
| 118382         | Closed                | -                               |
| 118410         | Closed                | \$13,571.93                     |
| 118417         | Monitoring            | Cross-Referenced                |
| 118433         | Monitoring            | Cross-Referenced                |
| 118441         | Monitoring            | \$44,119.50                     |
| 118467         | Monitoring            | \$85,429.97                     |
| 118491         | Monitoring            | \$7,980.70                      |
| 118514         | Monitoring            | \$29,091.88                     |
| 118765         | Closed                | \$14,338.36                     |
| 118768         | Monitoring            | \$9,500.41                      |
| 118851         | Closed                | \$14,996.80                     |
| 118882         | Monitoring            | \$27,761.05                     |
| 118893         | Monitoring            | \$4,936.25                      |
| 119018         | Monitoring            | \$21,213.92                     |
| 119038         | Monitoring            | \$18,929.09                     |
| 119146         | Monitoring            | \$29,366.68                     |
| 119191         | Monitoring            | \$18,035.34                     |
| 119304         | Monitoring            | \$30,641.99                     |
| 119397         | Monitoring            | \$2,277.15                      |

| <b>LPST ID</b> | <b>Current Status</b> | <b>Amounts Expended in FY20</b> |
|----------------|-----------------------|---------------------------------|
| 119422         | Monitoring            | \$48,929.00                     |
| 119479         | Monitoring            | \$46,790.50                     |
| 119561         | Closed                | \$3,675.04                      |
| 119573         | Monitoring            | \$15,034.68                     |
| 119611         | Monitoring            | -                               |
| 119646         | Monitoring            | \$80,622.93                     |
| 119719         | Monitoring            | \$3,754.84                      |
| 119742         | Monitoring            | \$24,220.40                     |
| 119747         | Monitoring            | Cross-Referenced                |
| 119831         | Monitoring            | \$58,570.98                     |
| 119881         | Monitoring            | \$41,881.47                     |
| 119904         | Closed                | \$9,313.00                      |
| 119918         | Monitoring            | \$3,625.03                      |
| 120035         | Monitoring            | \$5,824.70                      |
| 120111         | Monitoring            | \$24,556.76                     |
| 120197         | Monitoring            | \$5,648.88                      |
| 120211         | Monitoring            | \$25,266.30                     |
| 120234         | Monitoring            | \$9,949.50                      |
| 120240         | Monitoring            | \$20,468.50                     |
| 120287         | Monitoring            | \$19,384.55                     |
| 120369         | Monitoring            | \$68,348.50                     |
| 120414         | Closed                | \$17,373.40                     |
| 120434         | Monitoring            | \$22,652.40                     |

| <b>LPST ID</b> | <b>Current Status</b> | <b>Amounts Expended in FY20</b> |
|----------------|-----------------------|---------------------------------|
| 120572         | Monitoring            | \$66,489.29                     |
| 120621         | Monitoring            | \$16,417.95                     |
| 120642         | Monitoring            | \$2,191.90                      |
| 120719         | Referred              | Referred                        |
| 120730         | Monitoring            | \$103,485.30                    |
| 120740         | Monitoring            | \$7,690.95                      |
| 120782         | Monitoring            | -                               |
| 120859         | Monitoring            | \$1,189.25                      |
| 120884         | Monitoring            | \$4,682.32                      |